

The University
of Southern
Mississippi
Bulletin 1980-81



Graduate

ACCREDITED BY:

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UNIVERSITY OF SOUTHERN MISSISSIPPI BULLETIN



Graduate Programs 1980-1981

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SUMMER TERM 1980

Hattiesburg Campus

- Tuesday, May 13**
Deadline for making application for admission
- Monday, June 2**
Registration by appointment
Orientation for freshmen and transfer students
Only day to register for full or first term courses without late fee.
- Tuesday, June 3**
8:00 a.m. Classes begin
1:30 p.m. Late registration begins
6:30-8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)
- Wednesday, June 4**
6:30-8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only)
- Thursday, June 5**
6:30-10:00 Thursday night classes meet as scheduled
- Friday, June 6**
Last day for registering or adding first term courses
- Wednesday, June 11**
Last day for registering or adding full term courses
Last day for dropping first term courses
- Monday, June 30**
Last day for dropping full term courses without academic penalty
- Thursday, July 3**
End of first term (q) courses
- Friday, July 4**
Independence Day holiday
- Monday, July 7**
Second term (qq) courses begin
Registration for second term (qq) courses begins
- Wednesday, July 9**
Last day for registering or adding second term courses
- Monday, July 14**
Last day for dropping second term courses
- Friday, August 8**
Last day of regularly scheduled classes
- Monday, Tuesday, Wednesday, Thursday, August 11-14**
Summer term examinations
- Thursday, August 14**
7:30 p.m. Commencement

FALL SEMESTER 1980

Hattiesburg Campus

Friday, August 8, 1980

Deadline for making application for admission

Saturday, August 23

Dormitories open for students with definite
room assignments

Sunday, August 24

8:00 a.m. Dormitories open for all other students

1:00 p.m. Registration by appointment (Mini-Quarter students)

Monday, August 25

8:00 a.m. Registration continues

8:00-10:00 a.m. Orientation for freshmen and transfer students
who did not attend summer orientation

10:00-11:55 a.m. Placement tests for new students

Tuesday, August 26

8:00 a.m. Registration continues

Wednesday August 27

8:00 a.m. Classes begin

1:30 p.m. Late registration begins

6:30-7:45 p.m. Monday night classes meet (this week only)

8:00-9:15 p.m. Wednesday night classes meet (this week only)

Thursday, August 28

8:15 a.m. Change of schedule begins

6:30-7:45 p.m. Tuesday night classes meet (this week only)

8:00-9:15 p.m. Thursday night classes meet (this week only)

Monday, September 1

Labor Day holiday (night classes will meet)

Friday, September 5

Last day for registering or adding courses

Thursday, October 2

Last day for dropping a course without academic penalty

Friday, October 17

Midpoint in Fall Semester

End of first term (q) courses

Monday, October 20

Second term (qq) courses begin

Tuesday, November 25

9:15 p.m. Thanksgiving holidays begin (night classes will meet)

Monday, December 1

8:00 a.m. Classes resume

Monday, December 8

Last day of regularly scheduled classes

Tuesday-Saturday, December 9-13

Fall Semester examinations

Friday, January 16, 1981

Last day to file application for undergraduate
and graduate degrees for May graduation.

SPRING SEMESTER 1981

Hattiesburg Campus

Friday, December 19, 1980

Deadline for making application for admission

Wednesday, January 7, 1981

Dormitories open

Thursday, January 8

8:00 a.m. Registration by appointment

Friday, January 9

8:00 a.m. Registration continues

Monday, January 12

8:00 a.m. Classes begin

1:30 p.m. Late registration begins

6:30-9:15 p.m. Night classes begin meeting at regularly scheduled times

Friday, January 16

Last day to file application for undergraduate and graduate degrees for May graduation

Tuesday, January 20

Last day to register or add courses

Monday, February 16

Last day to drop a course without academic penalty

Friday, March 6

6:00 p.m. Spring vacation begins

Midpoint in Spring Semester

End of first term (q) courses

Monday, March 16

8:00 a.m. Classes resume

Second term (qq) courses begin

Monday, March 30

USM Day

Thursday, April 16

Easter holiday begins (night classes will meet)

Monday, April 20

6:30 p.m. Monday night classes meet

Tuesday, April 21

8:00 a.m. Day classes resume

Wednesday, April 29

Last day of regularly scheduled classes

Last day to file application for undergraduate and graduate degrees for August graduation

Thursday, April 30

Reading Day

Friday, Saturday, Monday, Tuesday, Wednesday, May 1,2,4-6

Spring Semester examinations

Wednesday, May 6

7:30 p.m. Commencement

SUMMER TERM 1981

Hattiesburg Campus

- Tuesday, May 12
Deadline for making applications for admission
- Monday, June 1
8:00 a.m. Registration by appointment
Orientation for freshmen and transfer students
Only day to register for full or first term
courses without late fee
- Tuesday, June 2
8:00 a.m. Classes begin
1:30 p.m. Late registration begins
6:30-8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)
- Wednesday, June 3
6:30-8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only)
- Thursday, June 4
6:30-10:00 p.m. Thursday night classes meet as scheduled
- Friday, June 5
Last day for registering or adding first term (q) courses
- Wednesday, June 10
Last day for registering or adding full term courses
Last day for dropping first term (q) courses
- Monday, June 29
Last day for dropping full term courses without
academic penalty
- Friday, July 3
End of first term (q) courses
- Monday, July 6
Second term (qq) courses begin
Registration for second term (qq) courses begins
- Wednesday, July 8
Last day for registering or adding second term (qq) courses
- Monday, July 13
Last day for dropping second term (qq) courses
- Friday, August 7
Last day of regularly scheduled classes
- Monday-Thursday, August 10-13
Summer term examinations
- Thursday, August 13
7:30 p.m. Commencement

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12/Administration

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UNIVERSITY MISSION AND GOAL

The University of Southern Mississippi, located in the south central part of the state, is operated by the State of Mississippi as one of eight public universities. The University identifies its primary service area as the southern half of the state, although as a university, it is committed to serve the entire state with programs and services not available from other public educational institutions, with programs and services in which the University has specialized expertise, and with programs and services where the University is uniquely organized to fulfill existing needs. The University also believes that it should serve residents of other states and areas as far as possible within the limits of the law, financial resources, and physical facilities, and the University accepts the principle that a student body with divergent backgrounds is often desirable in creating an educational environment. In this belief and acceptance, the University sees itself as a regional institution.

However, while the University feels that it is accountable to all of its clientele for the highest quality possible in its programs and services, it acknowledges that by virtue of its being a state institution, it ultimately is responsible to the citizens of the State of Mississippi, their duly elected representatives, and their appointed representatives of legally constituted agencies.

The Purposes of the University

The fundamental purposes of the University of Southern Mississippi may be examined in terms of its major functions: teaching, research, and service.

Teaching

The broad area of teaching in all of its facets is, and shall continue to be, the primary purpose of the University. The administration, faculty, students, and general public must continually reaffirm this purpose as having the highest priority. Teaching must not only provide appropriate learning experiences, but also must motivate students to learn. The University recognizes that teaching must serve the needs of both individuals and society.

A. Individual Needs

1. To encourage learning based on rational inquiry, problem solving, challenge, creativity, and intellectual initiative;
2. To increase understanding and appreciation of the traditional, liberal, and cultural areas of human knowledge and experience;
3. To increase understanding of the applications of learning to further career goals;

B. Societal Needs

1. To prepare citizens who are capable of observing, understanding and participating in society, and who can effectively challenge as well as support its activities and practices;
2. To prepare citizens who will actively endorse and practice the highest ideals of personal and professional integrity and competence;
3. To prepare citizens who can perform tasks needed by the society and pursue careers that are beneficial both to the individual and society.

The teaching function of the University can be expressed in terms of expected student outcomes. It is expected, as a result of the teaching of the University, that students should achieve the following competencies:

1. Knowledge of various kinds and insight into how to expand that knowledge and how to use it;
2. Mastery of the skills of communication;

3. Awareness of personal values, the values of others, and the interaction between the two;
4. Ability to work with others in study, in problem solving, and in various tasks undertaken;
5. Awareness of and interest in current events, issues, and problems;
6. Awareness of the desire to fulfill obligations and responsibilities as citizens in a democratic society;
7. Understanding and appreciation of the humanistic ideals implicit in a university education;
8. Career preparation that will qualify them for a useful and profitable role in society.

Research

Research is an important and vital function of the University. The University of Southern Mississippi affirms its importance and sees the role of research, both basic and applied, as an integral part of teaching. It should discover, extend, amplify, refine, and communicate knowledge. It provides motivation for learning; fosters a contemporary learning environment; and, in so doing, improves the learning experiences. It further complements teaching by providing depth, breadth, and application to the learning processes. To fulfill this purpose, the University feels that its research efforts must:

1. Contribute to the knowledge of man and to the teaching of man by the discovery, preservation, and dissemination of new knowledge;
2. Contribute to the knowledge of man and to the teaching of man by the extension, amplification, refinement, preservation, and dissemination of existing knowledge;
3. Provide students with opportunities to develop an appreciation of research and to learn the methodology of and application of research consistent with their chosen areas of specialization and career goals.

Service

The service function of the University should seek to incorporate its resources of knowledge, skills, and artistry into the mainstream of the society it serves; the University, through service, can become a viable influence toward enhancing the quality of the lives and life-long pursuits of its constituency. It shall attempt to fulfill this commitment by:

1. Providing, through continuing education programs, opportunities for independent study, special interests, informal educational activities, and formal educational experiences within conventional degree programs;
2. Providing for its clientele the acquisition and maintenance of the skills necessary to adjust to the rapidity of changes in the business and professional fields as well as in society in general;
3. Utilizing the unique resources of the University in developing new processes through which communities may develop more adequate patterns and mechanisms for building a quality environment;
4. Supplying the educational bridge between the University and the citizens of Mississippi by providing opportunities to Mississippians for their personal and professional growth and making the skills of research available for the rapid solution of local, state, and national problems.

In order for the University to realize its purposes within its unique setting, the following commitments will be necessary:

1. To select faculty, undergraduate and graduate, primarily for its interest and

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expertise in high quality instruction but also for its interest in and ability to accomplish significant research and service;

2. To increase focus and attention upon the individual student;
3. To provide all necessary materials and equipment which will facilitate and expand personalized instruction;
4. To initiate and maintain a high degree of student motivation for learning;
5. To communicate values and to maintain balance between cognitive and affective learning;
6. To examine critically and systematically curricula, courses, course content, and methods, both at undergraduate and graduate levels, in order to determine if the needs and demands of our rapidly changing society are being met;
7. To coordinate the curricula of the University to avoid duplication and provide means for interdisciplinary instruction both at the undergraduate and graduate level;
8. To accumulate knowledge through personal and sponsored research done by undergraduate, graduate, advanced graduate students, and the faculty;
9. To emphasize the importance of producing, publishing, and utilizing knowledge gained through research;
10. To direct research activities which are oriented toward instruction and service;
11. To provide services to non-academic communities which are reasonable and practical extensions of instruction and research;
12. To maintain balance between the services provided and the basic education components of the University;
13. To improve relationships between the academic and nonacademic communities through the services provided;
14. To provide those student services and activities that are needed by students to attain desired educational outcomes and by the University to create and sustain an exciting, stimulating, and significant educational environment;
15. To provide coordination of effort and efficiency of operation within all areas of the University;
16. To provide the best library, laboratory, studio, and museum services possible within the resources of the University;
17. To provide physical facilities that will not only meet the academic and administrative needs of the University but will contribute to a proper educational environment;
18. To seek the financial support necessary for fulfilling the mission of the University at the lowest possible cost to students without sacrificing quality;
19. To make available quality graduate education in keeping with the role and nature of the University;
20. To provide an environment which encourages cultural aesthetic development;
21. To provide educational experiences in the arts and sciences.
22. To continue the strong emphasis on career education.

THE GRADUATE SCHOOL

The Graduate School at the University of Southern Mississippi was established in 1947 to recognize the University's growing responsibilities as a center of higher learning, and to provide an academic environment in which advanced research and free inquiry could develop to the advantage of both the student and the State. In the years since 1947, the University's graduate programs have developed logically on the growing points of strong undergraduate schools and departments to meet the needs for professional competence beyond the academic measure of the baccalaureate degree.

In response to the need to offer graduate programs beyond the boundaries of the Hattiesburg Campus, the Board of Trustees in 1972 authorized the University to grant graduate degrees on the campuses at the University of Southern Mississippi—Gulf Park and the University of Southern Mississippi—Natchez. Course work taken at the Hattiesburg, Gulf Park, and Natchez campuses is considered as campus work.

The Graduate School's Place Within the University Structure

The Graduate School is administered by a dean executing policies determined by the Graduate Council of which the Dean of the Graduate School serves as chairman.

The present composition of the Graduate Council includes the Dean of the Graduate School as chairman with two representatives from the College of Education and Psychology and one representative each from the College of Business Administration, the College of Fine Arts, the School of Health, Physical Education, and Recreation, the School of Home Economics, the College of Liberal Arts, the School of Library Service, the School of Nursing, the College of Science and Technology, the School of Social Work, and a member of the graduate student body. Council members are appointed by the President of the University upon the recommendation of the Committee on Committees. Permanent *ex officio* members are the President of the University and the University Librarian. The University Registrar serves as secretary to the Council.

The responsibilities of the Graduate Council, representing both administration and faculty, include:

1. Determining policies of admission to the Graduate School.
2. Considering and approving graduate programs submitted to the Council through curriculum committees of each college and school.
3. Electing members of the Graduate Faculty upon recommendation by the academic deans.
4. Approving new courses (and deleting courses) for graduate credit.
5. Acting upon any other problems affecting graduate programs.

The graduate programs approved by the Council are carried out through the Graduate Faculty in each degree-granting college or school of the University's academic organization.

DEGREE PROGRAMS OFFERED*

The University of Southern Mississippi offers graduate level programs in nearly every recognized academic discipline. Even those departments not yet ready to offer master's or doctoral degrees are usually equipped to offer a graduate minor. In addition, master's degrees are offered at USM—Gulf Park and at USM—Natchez. For specific information about the master's programs at Gulf Park and Natchez, please see their section in this **Bulletin**.

The degrees which are offered and their majors are listed below. Refer to each department for emphasis areas.

*Please note that degree offerings sometimes change because of changes in curricula. Those listed in this **Bulletin** are those granted as of the 1980-1981 academic year.

DEGREES OFFERED

DOCTOR OF EDUCATION

Education
Health, Physical Education,
and Recreation
Science Education

DOCTOR OF PHILOSOPHY

Biology	Music Education
Chemistry	Political Science
Communication	Polymer Science
Counseling Psychology	Psychology
Education	Science Education
English	Speech and Hearing Sciences
Health, Physical Education, and Recreation	
History	

DOCTOR OF MUSIC EDUCATION

Music Education

DOCTOR OF MUSICAL ARTS

Performance and Pedagogy

MASTER OF PHILOSOPHY

Biology	History
Chemistry	Microbiology
Communication	Political Science
Comparative Literature	Polymer Science
Geography	

SPECIALIST IN EDUCATION

Adult Education	Home Economics Education
Business Education	Industrial and Vocational Education
Counseling and Guidance	Music Education
Educational Administration and Supervision	Physical Education
Educational Media and Technology	Reading
Educational Research	Science Education
Elementary Education	Secondary Education
	Special Education

SPECIALIST IN ENGLISH

English

MASTER OF ART EDUCATION

Art Education

MASTER OF ARTS

Anthropology	Latin American Studies
Communication	Philosophy
Comparative Literature	Political Science
Criminal Justice	Psychology
Economics	Sociology

English
French
Geography
German
History

Spanish
Speech and Hearing
Sciences
Theatre

MASTER OF BUSINESS ADMINISTRATION

Business Administration

MASTER OF EDUCATION

Adult Education
Business Education
Early Childhood Education
Educational Administration
and Supervision
Educational Media and
Technology

Elementary Education
School Counseling
Science Education
Secondary Education
Special Education

MASTER OF FINE ARTS

Drawing and Painting

Theatre

MASTER OF LIBRARY SCIENCE

Library Science

MASTER OF MUSIC

Music

MASTER OF MUSIC EDUCATION

Music Education

MASTER OF PROFESSIONAL ACCOUNTANCY

Accounting

MASTER OF SCIENCE

Anthropology
Biology
Business Education
Chemistry
Child Development
Clothing and Textiles
Clothing Merchandising
College Counseling
Communication
Computer Science
Counseling Psychology
Criminal Justice
Economic Development
Economics
English
Family Living
Food Science and Technology
French
Geography
Geology
German
Health Education
History
Home Economics Education

Industrial and Vocational Education
Industrial Arts
Institution Management
Latin American Studies
Management (Natchez)
Mathematics
Medical Technology
Microbiology
Nursing
Physical Education
Physics
Political Science
Polymer Science
Psychology
Reading
Recreation
Science Education
Secondary Education
Spanish
Speech and Hearing Sciences
Statistics
Telecommunications Management
(Gulf Coast)

MASTER OF SOCIAL WORK

Social Work

UNIVERSITY PRESS OF MISSISSIPPI

The University Press of Mississippi was founded in 1970 to encourage the dissemination of the fruits of research and study through the publication of scholarly works. Functioning as the scholarly publishing arm of the state-supported universities in Mississippi, the University Press is governed by a Board of Directors made up of one representative from each of the eight universities, one representative from the Board of Trustees of State Institutions of Higher Learning, and the Director of the Press.

The University Press publishes between ten and twenty books each year. Primary areas of interest are Mississippi history and literature, but manuscripts in all areas of study are welcomed.

Administrative offices of the University Press are located in the Education and Research Center of Mississippi, 3825 Ridgewood Road, Jackson, Mississippi.

ADMISSION REQUIREMENTS AND PROCEDURES

Since applicants must always be admitted to a specific program within the Graduate School, all applicants for admission to the Graduate School are closely reviewed and must be approved by the chairman of the department in which the student intends to study, by the school or college dean, and by the Graduate Dean. Admission forms are procurable from and should be submitted to the University Admissions Office.

The aptitude phase (verbal and quantitative sections) of the **Graduate Record Examinations** is required of all applicants to the Graduate School except in the College of Business Administration which requires the **Graduate Management Admissions Test**. Prospective students should plan to take the appropriate examination, given several times a year at a number of university testing centers, early in their senior year and request that a copy of their scores be sent to the Graduate Office.

The academic record, character, and conditions of application of the applicant must be in accordance with the rules and regulations of the Board of Trustees of State Institutions of Higher Learning and with the laws of the State of Mississippi. The applicant must have excellent moral character in conformity with the generally accepted standards customarily in effect in the University.

The University reserves the right to cancel the admission or registration of an individual whose attendance at the University, in the opinion of the appropriate administrative officer and the President, would not be beneficial to himself and/or to the institution.

It should be clearly understood that the admission requirements listed below represent the minimal standards set by the Graduate Council and that additional requirements and higher standards may well be stipulated by the various department chairmen.

TYPES OF ADMISSION TO MASTER'S PROGRAMS

Any student denied admission to the master's program may have his case reviewed by the Graduate Committee for Admissions and Credits. To initiate the review procedure, the student should send a written request to the Dean of Special Academic Services.

I. Regular Admission

- A. The applicant must hold a baccalaureate degree from an institution approved by a recognized accrediting agency.
- B. The applicant must be eligible to re-enter in good standing the last college or university attended.
- C. The applicant must present evidence, by official transcript (two copies), of a grade point average of at least 2.75 (figured on an A equals 4.0 scale) for the last two years of undergraduate study, and a grade point average of at least 3.0 on undergraduate courses in the field of proposed graduate study. Any exception to this requirement must be cleared with the appropriate department chairman, the dean concerned, and the Graduate Dean.
- D. The applicant must present an acceptable test score on the Aptitude Section of the **Graduate Record Examinations** or the **Graduate Management Admissions Test** applicable to the program into which he seeks admission. Test score requirements vary between departments and some require the advanced section of the **Graduate Record Examinations**. Consult specific departmental requirements for this information.

- E. The appropriate department chairman, the school or college dean, and the Graduate Dean must be satisfied that the applicant shows promise of satisfying graduate degree requirements.

II. Conditional Admission

A student who does not meet the minimum admission standards for either grade point average or **Graduate Record Examinations** or the **Graduate Management Admissions Test** may be admitted on a conditional basis in one of two ways:

- A. He must present a score on the Aptitude Section of the **Graduate Record Examinations** or **Graduate Management Admissions Test** equal to or above that specified for the graduate program into which admission is requested, and a grade point average no lower than 2.5.
- B. He must present a grade point average of 2.75 or above if his score is lower than that specified for the program into which admission is desired.

Conditional admission can be given only upon the specific recommendation of the department chairman, the school or college dean, and the Graduate Dean.

A conditional graduate student must meet the following conditions if he is to continue in the Graduate School:

- A. If his first enrollment is as a full-time student, he must make grades of **B** or better on each graduate course attempted during the first semester/term.
- B. If his first enrollment is as a part-time student, he must make grades of **B** or better on his first nine (9) semester hours, or grades of **B** or better on all courses taken while completing the nine-hour requirement.

All courses taken to remove conditional admission must be taken on a campus of the University of Southern Mississippi. Upon recommendation of the department chairman and the Graduate Dean, the conditional admission may be removed and the student reclassified as a regular student.

III. Non-Degree Graduate Student

Admission as a non-degree graduate student may be granted for any of the following reasons:

- A. He did not meet requirements for conditional or regular admission before the deadline.
- B. He may or may not be able to meet admission requirements but does not desire to work toward a graduate degree.
- C. He is enrolled in another university and desires to obtain credit from the University of Southern Mississippi to be transferred to the graduate school in which he is seeking a degree.

Regulations Governing Non-Degree Graduate Students

Even though a non-degree graduate student has been admitted to the University, he **has not** been admitted to any department or to any degree program. Moreover, no credit earned beyond the master's degree while classified as a non-degree student may be applied toward the doctoral degree.

To be allowed to continue as a non-degree graduate student, the student must consult with the department chairman or academic adviser of the department in which he is taking courses during the first semester enrolled at the University regardless of whether or not the student plans to seek a degree.

To become a degree-seeking student, the student **must**:

1. Complete the **Graduate Record Examinations** or the **Graduate Management Admissions Test** during the first semester/term he is enrolled at the University.
2. Have the minimum grade point average and **Graduate Record Examinations** score or the **Graduate Management Admissions Test** score requirements for regular or conditional admission in the department where he plans to seek the degree.
3. Complete an application for conditional or regular admission in the Admissions Office after completing the **Graduate Record Examinations** or the **Graduate Management Admissions Test** and when other admission requirements are completed.

No more than nine (9) semester hours earned while classified as a non-degree graduate student will be accepted toward a master's degree at the University of Southern Mississippi. A student must, therefore, gain conditional or regular admission before completing more than nine (9) semester hours of study for additional hours to be counted toward a master's degree.

A non-degree graduate student must hold a baccalaureate degree from an accredited institution.

Non-degree students desiring to enroll on a campus of the University of Southern Mississippi will be expected to file an application for admission by the appropriate deadline.

Students may be admitted as non-degree students to study in the College of Business Administration only if they have undergraduate grade point averages of 2.75 or above.

TYPES OF ADMISSION TO ADVANCED GRADUATE STUDY

Any student denied admission to advanced graduate study may have his case reviewed by the Graduate Committee for Admissions and Credits. To initiate the review procedure, the student should send a written request to the Dean of Special Academic Services.

Three advanced level programs are available for students who hold a master's degree and who wish to do additional graduate work. The first of these programs leads to the specialist's degree, the second to the Master of Philosophy degree, and the third to the various doctoral degrees.

I. Regular Admission

For regular admission to advanced graduate study, a student must present a grade point average no lower than 3.25 for the specialist's and the Master of Philosophy programs or 3.50 for the doctoral program on previous graduate work and an acceptable test score on the aptitude phase of the **Graduate Record Examinations** for the degree program for which he seeks admission.

II. Conditional Admission

For conditional admission to advanced graduate study a student must present either (a) a grade point average of between 3.00 and 3.25 for the specialist's and the Master of Philosophy programs or 3.25 and 3.50 for the doctoral program on previous graduate work and an acceptable **Graduate Record Examinations** score or (b) a grade point average no lower than 3.25 for the specialist's and the Master of Philosophy programs or 3.50 for the doctoral program if the **Graduate Record Examinations** score does not meet the acceptable score for regular admission.

24/Admission Requirements

Conditional status at the advanced graduate level may be removed on the recommendation of the department chairman provided the student has attained a grade point average of at least 3.25 on the first nine (9) semester hours of course work numbered 600 or above or on all courses taken while completing this nine hour requirement. All courses taken to remove conditional admission must be taken on a campus of the University of Southern Mississippi.

To be admitted to advanced graduate study, the student must submit a formal application through the Admissions Office even though he may have successfully completed a master's degree program at the University of Southern Mississippi. Acceptance as an advanced graduate student is contingent upon the approval of the department chairman, the school or college dean, and the Graduate Dean.

III. Non-Degree Student

An applicant for advanced study may be admitted as a non-degree student; however, no credit earned as a non-degree graduate student may be applied to doctoral degrees.

Limitations on University Faculty Members

Members of the faculty of the University of Southern Mississippi above the rank of instructor cannot become candidates for a doctoral degree at this institution. They may, however, enroll for graduate courses. Faculty members of the rank of instructor may become candidates for doctoral degrees at the University of Southern Mississippi on the same terms as any other advanced graduate student candidate.

PROCEDURES FOR APPLYING FOR ADMISSION

- I.** Application materials are available from the Dean of Admissions and Special Services, Southern Station Box 5011, Hattiesburg, Mississippi 39401.
- II.** All credentials (application, recommendations, two official transcripts from each institution attended) must be submitted to the Dean of Admissions and Special Services by the deadline published in the University Calendar.
- III.** **After all credentials are received, the Admissions Office will compute the applicant's grade point average and will forward the application and transcript to the appropriate department chairman, school or college dean, and the Graduate Dean.** As soon as the application has been processed by the department chairman, the school or college dean concerned, and the Graduate Dean, the Dean of Admissions will notify the applicant of the University's decision on his request for admission.

Permission for Undergraduate Seniors to Register for Graduate Credit

Exceptionally well qualified undergraduate students at the University of Southern Mississippi may apply to the Graduate Office for permission to take course work for graduate credit if they are within nine (9) semester hours of meeting bachelor's degree requirements as certified by the Registrar. If the Graduate Dean approves, the student may then register for graduate courses up to a maximum of six (6) semester hours of graduate credit with a total course load not exceeding twelve (12) semester hours. The student must complete requirements for the baccalaureate degree within the first semester/term in which he registers for graduate courses. The student's application for admission to the Graduate School will not be given final approval until after he satisfies all requirements for the baccalaureate degree.

STUDENT EXPENSES

The University of Southern Mississippi is supported chiefly by legislative appropriations. Increases in student fees are put into effect only when public support funds are inadequate and no other resource is available. Increases are made only for support of the institution or improvement of the activity program of the students; therefore the University must reserve the right to increase or modify fees and expenses without prior notice but with approval of the Board of Trustees of State Institutions of Higher Learning.

Fees and expenses are in the form of general tuition, room and board, and special fees.

GENERAL TUITION. This fee, together with the allocation from the legislative appropriation, is used for general support of the University. Athletic activities, health service, and UAC programs are not included for part-time students.

Full-time students for purposes of assessing fees are those who take 9 or more semester hours in Graduate School and 12 or more semester hours in all other schools and colleges during fall and spring semesters. During summer terms, 7 or more semester hours for Graduate School and 9 or more semester hours in all other schools and colleges constitute full-time students for purposes of assessing fees. Students enrolled for more than 19 semester hours will be assessed the applicable fee for each additional semester hour.

Clinical and hospital services covered by the health service charge included in the general tuition fee are limited to cases of ordinary illness. Services are provided within the limits of the professional, technical, and physical resources of the Clinic. The University does not assume responsibility in cases of extended illness or for treatment of chronic diseases. Cases requiring surgery must be handled by a physician and hospital of the student's choice.

ROOM, BOARD, AND POST OFFICE BOX. The room, board, and post office box fees are assessed for all students living in University-controlled residence halls and those students living in fraternity houses. Board is available to all other students on an optional basis. Two meal plans are available in the Commons: seven-day, twenty-meal plan and a five-day, fifteen-meal plan. Weight-watchers diets are available at \$35 extra each semester.

A room deposit of \$40 is payable in advance for the reservation of space in a residence hall. This amount is held as a damage deposit until a student withdraws from the residence hall. Upon withdrawal, the student must make an application to the Resident Manager of the dormitory for refund of the \$40. A student accepting residence hall space will be financially obligated to pay the full semester's room rent. A rent refund will be made only upon withdrawal from the University.

OTHER FINANCIAL INFORMATION. Fees of all students are due and payable at time of registration; however, fees of students enrolled for six semester hours or more may be paid one half upon entrance and the balance one week prior to the beginning of the second half of the semester. Students with University loans, grants, or scholarships may defer only one-half of the amount not covered by their loan, grant, or scholarship. A \$10.00 late charge will be assessed on any fees not paid in full by one week prior to the beginning of the second half of the semester. This procedure applies on all campuses and resident center locations.

The University reserves the right to withhold readmission to a student until all delinquent accounts have been paid. Transcripts of credits will not be issued for students whose accounts are delinquent. All fees must be paid before a degree is awarded.

Fines accumulated as a result of failure to adhere to the established procedures of the University, such as Library and Security regulations, or any other policy establishing regulations for the protection of University property, shall become collectible by the Bursar's Office, and, if not collected, shall constitute a delinquent account.

Students whose checks for registration are returned will be assessed the late registration fee of \$10.00, in addition to the \$6.00 returned check handling fee.

A fee of \$3.00 for operation of the University Union is included in the fees of all full-time students. A \$1.00 fee is added to the general tuition fee assessment of part-time students.

Courses requiring special fees and music fees are shown in the Special Fee listing (Table II).

A fee of \$7.00 for **The Southerner** (University annual) is payable each school year by all full-time undergraduate students.

RESIDENCE STATUS

LEGAL RESIDENCE OF STUDENTS: The definitions and conditions stated here are as required by state law in the classification of students as residents or nonresidents for the assessment of fees. Requests for a review of residency classification should be submitted to the Dean of Special Academic Services; forms for this purpose are available from the Dean of Special Academic Services' Office.

A MINOR: The residence of a person less than twenty-one years of age is that of the father. After the death of the father, the residence of the minor is that of the mother. If the parents are divorced, the residence of the minor is that of the parent who was granted custody by the court; or, if custody was not granted, the residence continues to be that of the father. If both parents are dead, the residence of the minor is that of the last surviving parent at the time of that parent's death, unless the minor lives with a legal guardian of his person duly appointed by a proper court of Mississippi, in which case his residence becomes that of the guardian.

AN ADULT: The residence of an adult is that place where he is domiciled, that is, the place where he actually physically resides with the intention of remaining there indefinitely or of returning there permanently when temporarily absent. Adult students who are residing outside of the State of Mississippi, but whose parents have moved to this state and have become residents, must establish residence in their own right. In determining residence for tuition purposes for persons who return to Mississippi after temporary departures such as school attendance, work elsewhere or military service, cognizance is taken of evidence showing continuity of state residence and demonstrated intent to return to the state.

REMOVAL OF PARENTS FROM MISSISSIPPI: If the parents of a minor who is enrolled as a student in an institution of higher learning move their legal residence from the State of Mississippi, the minor is immediately classified as a nonresident student.

TWELVE MONTHS OF RESIDENCE REQUIRED: No student may be admitted to the University as a resident of Mississippi unless his residence, as defined here-in-above, has been in the State of Mississippi for a continuous period of at least twelve months immediately preceding his admission.

RESIDENCE IN AN EDUCATIONAL INSTITUTION CAN BE COUNTED: A student who has lived within the state for twelve months following his twenty-first birthday may establish residence in his own right by showing that he is living in the state with the intention of abandoning his former domicile and remaining in the State of Mississippi permanently, or for an indefinite length of time.

Intent may be demonstrated or disproved by factors including, but not limited to, filing of Mississippi income tax returns, eligibility to vote in Mississippi, motor vehicle registration in Mississippi, possession of a Mississippi operator's license, place of employment, and self support.

RESIDENCE STATUS OF A MARRIED WOMAN: A married woman may claim the residence of her husband, or she may claim independent residence status under the same regulations, set forth above, as any other adult.

CHILDREN OF PARENTS WHO ARE EMPLOYED BY THE UNIVERSITY: Children of parents who are members of the faculty or staff of the University may be classified as residents without regard to the residence requirements of twelve months.

MILITARY PERSONNEL ASSIGNED ON ACTIVE DUTY STATION IN MISSISSIPPI: Members of the armed forces on extended active duty and stationed within the State of Mississippi, except those military personnel whose active duty assignment is for educational purposes, may be classified as residents, without regard to the residence requirement of twelve months, for the purpose of attendance at the University. Resident status of such military personnel who are not legal residents of Mississippi, as defined above under **LEGAL RESIDENCE OF AN ADULT**, shall terminate upon their reassignment for duty in the continental United States outside the State of Mississippi.

CHILDREN OF MILITARY PERSONNEL: Resident status of children of members of the armed forces on extended active duty shall be that of the military parent for the purpose of attending the University during the time that their military parents are stationed within the State of Mississippi and shall be continued through the time that military parents are stationed in an overseas area with last duty assignment within the State of Mississippi, excepting temporary training assignments en route from Mississippi. Resident status of minor children shall terminate upon reassignment under permanent change of station orders of their military parents for duty in the continental United States outside the State of Mississippi, excepting temporary training assignments en route from Mississippi.

CERTIFICATION OF RESIDENCE OF MILITARY PERSONNEL: A military person on active duty stationed in Mississippi who wishes to avail himself or his dependents of the provisions of the paragraph titled **MILITARY PERSONNEL ASSIGNED ON ACTIVE DUTY STATION IN MISSISSIPPI** must submit a certificate from his military organization showing the name of the military member, the name of the dependent, if for a dependent, the name of the organization of assignment and its address (may be in the letterhead), that the military member will be on active duty stationed in Mississippi on the date of registration at the University; that the military member is not on transfer orders; and the signature of the commanding officer, the adjutant, or the personnel officer of the unit of assignment with signer's rank and title. A military certificate must be presented to the Registrar of the University each semester at (or within ten days prior to) registration for the provisions of the paragraph **MILITARY PERSONNEL ASSIGNED ON ACTIVE DUTY STATION IN MISSISSIPPI**, named above, to be effective.

LEGAL RESIDENCE OF A FOREIGN STUDENT: Students with permanent immigrant status or refugee status can establish residence in the state by meeting the provisions of the Mississippi Statute.

PETITIONS FOR CHANGE OF RESIDENCY: Petitions for change of residency must be made on or before the last day a student may register at the particular institution without penalty.

STUDENTS HOLDING ASSISTANTSHIPS: Non-resident students holding University financed assistantships will not be required to pay the non-resident fee during the time they hold such appointments.

REFUND POLICY: A student who officially withdraws after enrollment in a semester may obtain a refund in accordance with the following:

Through second week	80%
Through third week	60%
Through fourth week	40%
Through fifth week	25%
After fifth week	None

The refund schedule above applies to students who drop to an hourly load below full time or from an overload to full-time or below. The applicable percentage then applies to the difference between fees calculated on the resulting hourly load and the original assessment.

Room and board fees are refunded on the basis of full weeks remaining in the semester.

Appeals for refunds due to extenuating circumstances may be made in writing to the Vice President for Business and Finance, University of Southern Mississippi, Southern Station Box 5005, Hattiesburg, MS 39401.

Students who find it necessary to withdraw from the University must submit written requests to the deans of their schools or colleges. Those students who are undecided as to their majors should direct their written requests to the Admissions Office. Oral requests will not be accepted.

TABLE I
EXPENSES EACH UNIVERSITY SEMESTER/SESSION

(All fees are subject to change without notice. See page 25.)

FULL-TIME STUDENTS	FALL, SPRING SEMESTERS	SUMMER SESSION
FIXED FEES:		
General Tuition.....	\$388.00	\$246.00
Room Rent:		
Hillcrest and Elam Arms	385.00	240.00
Vann.....	370.00	230.00
Other Air Conditioned Halls.....	325.00	216.00
All Other Halls	285.00	196.00
Board:		
5-Day Plan.....	310.00	210.00
7-Day Plan.....	340.00	230.00
Other Fees When Applicable:		
Non-resident fee	425.00	
*The <i>Southerner</i>	7.00	
**Post Office Box.....	3.00	2.00
PART-TIME STUDENTS—Each Semester Hour—All		
Campuses:		
General Tuition—graduate student	37.00	35.00
General Tuition—undergraduate student	31.00	29.00

Non-resident fee:

Graduate student	47.00
Undergraduate student	35.00

*Non-refundable. Charged the first semester attended each year to all full-time undergraduate students. Optional to all other students.

**Non-refundable. Optional to students living off campus.

General tuition, room, board, and post office, if applicable, are payable each semester/session.

TABLE II

SPECIAL FEES AND EXPENSES

Departmental Fees:

REF 619, 735, 741; LS 516, 622	\$ 7.50	per course
Music Fees—Private lessons for other than full-time music majors and for music majors taking private lessons not required for the degree being pursued:		
Each semester hour per instructor	35.00	
Orchestral or Band Instrumental rental	10.00	per course

Examinations and Degrees:

Miller Analogies Test	\$ 10.00	when applicable
Revalidation Examination	30.00	when applicable
Special Examination	3.00	when applicable
Application for Degree		
Master's	15.00	
Specialist's	15.00	
Doctoral	110.00	
Thesis binding per copy	6.00	when applicable

Extension and Public Service:

Resident Center		
Graduate Course	\$ 37.00	per semester hour
Resident Center—Laboratory fee	6.00	per course
Resident Center—Typing fee	5.00	per course
Extension Center		
Graduate Course	37.00	per semester hour

Registration and Records:

Change of Schedule	\$ 5.00	when applicable
Cooperative Education	25.00	when applicable
Late Registration	10.00	
Evaluation Fee for Foreign Students		
(Non-refundable)	10.00	with application
Memorandum of Credits50	each
Transcript of Credits	1.00	when applicable

Special fees are not normally refundable. However, requests for refunds of special fees will be based on circumstances existing at the times of requests.

AVAILABLE FINANCIAL ASSISTANCE FOR GRADUATE STUDENTS

At present the University has available some 200 master's and 50 doctoral University assistantships in all areas as well as fellowships provided by federal and private agencies. Though amounts may vary from department to department. University assistantships pay a minimum \$2000 per year at the master's level and

\$2400 at the doctoral level and entail one-quarter time of teaching or research assignment. To maintain an assistantship a student must have an average of **B** or better each semester. Out-of-state tuition, though not the general tuition fee, is currently waived for assistantship holders. The University also currently waives out-of-state tuition for students on sabbatical leave with pay from schools and colleges.

Inquiries regarding assistantships should be directed to the Dean of the Graduate School. Applications for assistantships must be filed by March 15.

The National Direct Student Loan, College Work-Study Program, and Insured Student Loans are also available to graduate students. (See the Financial Aid section of the **Undergraduate Bulletin** for detailed information about the NDSL & CWSP Programs.) Applicants for Direct Student Loans and College Work-Study Program should apply by March 15 (priority date) for loans and work to begin the fall term. Applications for the National Direct Student Loan, College Work-Study Program, and Federally Insured Loan (Mississippi residents) may be secured by writing the Director of Financial Aid. Students who reside outside the State of Mississippi should contact their State Department of Education to determine source of Insured Loans used by their state.

PLACEMENT SERVICES

The Office of Placement Services, located on the first floor of McLemore Hall, offers the student two types of employment opportunities while attending the University; part-time employment as well as career employment upon graduation. All employment opportunities are offered free to both the students and the prospective employer.

The Student Employment Division offers the student an opportunity to obtain part-time employment while enrolled as a regular student at Southern. The service is comprehensive in that it will involve jobs for work-study as well as non-work study both on and off campus.

The Career Employment Division provides assistance to graduating seniors, graduates, and alumni in obtaining career employment upon or after graduation.

All students should register with Placement Services and establish a placement credentials folder during the last semester of their junior year or the first semester of their senior year. These credentials are valuable to prospective employers that are seeking information on college graduates for possible employment. The file is permanent, and can be used by the graduate as often as it is needed.

FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT OF 1974

(Buckley Amendment)

The Buckley Amendment deals with one subject only: educational records. The purpose of the law is to define, more precisely than ever has been done, who may or may not see them. On the one hand, the law grants students guaranteed access; on the other hand, it takes from the universities the privilege of indiscriminate disclosure.

The Buckley Amendment sets forth these main requirements:

- (1) it allows a student access to each educational record that a university or college keeps on him/her;
- (2) it requires the institution to establish a policy on how students can go about seeing specific records;

- (3) it requires the institution to inform all students as to what rights they have under the Amendment, how they can act on these rights according to school policy, and how they can see a copy of the policy; and
- (4) it requires the institution to seek student permission, in writing, before disclosing any personally identifiable record to individuals other than professional personnel employed in the university or college (and others who meet certain specified requirements).

The University has developed and put into writing a policy for handling requests from students and for disclosing personally identifiable information about students. Students are notified at least once a year of their rights under the law by publishing the University policy in the student newspaper.

GENERAL ACADEMIC REQUIREMENTS

It is reasonable to assume that a graduate student accepts full responsibility for knowing the policies and regulations of the Graduate School and the departmental requirements relevant to his individual degree program.

Only the general academic regulations and requirements governing all graduate programs are given below. Specific requirements pertaining to individual degree programs are outlined within the department sections.

Course Work and Grading System

Courses open to graduate students are those numbered 500 or above.

Many courses have certain prerequisites. A student who wishes to register for a particular course must satisfy the department concerned that he has had preparation adequate for admission to the course.

The grading system in the Graduate School is as follows:

- A** — Indicates that the student's work is of unusually high quality.
- B** — Indicate that the student's work is of high but not exceptional quality.
- C** — Indicates that the student has met the minimum requirements for passing the course.
- D** — Indicates that the student's work is below that which is expected of a graduate student. A course in which the student has earned a grade of **D** will not apply toward a graduate degree. A student who earns more than six (6) semester hours in grades of **D** or below may not be considered as a candidate for a degree.
- E** — Indicates a course in progress. It is to be used only for thesis and dissertation credit while in progress.
- F** — Indicates that the student has failed the course. A student who accumulates more than three (3) semester hours of **F** grades will not be considered as a candidate for a degree.
- I** — Indicates an incomplete record. An **I** becomes an **F** if not removed within one term of attendance.
- P** — Indicates completion of thesis and dissertation credit and is assigned only upon completion. Also used for grades in courses numbered 697 and 797.
- W** — Indicates withdrawal from a course passing.
- X** — Indicates failure to drop or withdraw properly before deadline. Upon completion of the drop/withdrawal form and payment of the appropriate fees, the Registrar is authorized to replace the grade of **X** with a **W**.

Fuller explanation of the grading system is in the **Undergraduate Bulletin**.

The general regulation that degree work must be completed within a six-year period applies to all course work.

An average of **B** or better is required of all candidates for graduate degrees by the time they complete the course-hour requirements for the degree.

In computing averages, a **C** must be balanced by one **A**, a **D** by two **A**'s, and an **F** by three **A**'s of equal graduate credit.

On the recommendation of the student's committee or major professor, a student may retake one graduate level course in order to improve his grade point average.

Course Loads

- I.** Although the maximum load of a full-time graduate student is sixteen (16) semester hours, the normal load for a full-time graduate student is generally considered to be twelve (12) semester hours.

- II. The minimum load for a full-time graduate student is nine (9) semester hours for the purpose of living in Pine Haven, using the services of the Clinic, for veterans affairs, and other such requirements.
- III. Thirteen (13) hours is the maximum load for a graduate fellow teaching one undergraduate class or its equivalent. In no case may the total hours involved in a student's program, including both his course work and his assistantship assignment, exceed sixteen (16) hours.
- IV. The courses numbered 697 and 797—**Independent Study and Research**—may be taken for any amount of credit with the exception that students who are not in residence but who are actively working on a thesis, research problem, or dissertation and consulting with the major professor or making use of the library or other University facilities must enroll for at least one (1) hour each semester.

MASTER'S DEGREE REQUIREMENTS

A convenient checklist of master's degree requirements may be procured in the Graduate Office.

I. Credit Hours

A minimum of thirty (30) semester hours credit is required for any master's degree. Some departments require more than the minimum. Consult specific college and departmental requirements for additional information.

II. Time Limitation

The student must complete the master's degree within six calendar years from the date of initial enrollment as a graduate student. Six years is the maximum age allowed for graduate credits toward a master's degree. If more than six years are needed to complete requirements, the Graduate Dean, under extenuating circumstances, may revalidate over-age credit hours if the original credit was earned at the University of Southern Mississippi and if the dean of the college or school concerned approves the revalidation. The revalidation is secured by the student's successfully passing a special examination on the course. However, any student who fails to complete his master's degree program within the six-year time period becomes subject to any changes in degree requirements made at any date six years prior to his graduation. The fee charged for the special revalidation examination is \$30.00 per course. The fee is to be paid before the revalidation examination is taken. Over-age extension courses cannot be revalidated.

III. Credit Hours Limitations

- A. A minimum of eighteen (18) semester hours must be earned on a campus of the University of Southern Mississippi.
- B. A minimum of fifty per cent of the credit earned at the University of Southern Mississippi must be taken on the campus from which the degree is awarded.
- C. A minimum of eighteen (18) semester hours must be in courses numbered 600 or above. Master of Business Administration degree candidates are permitted to take a maximum of one 500-level course.
- D. A total of no more than nine (9) semester hours of work earned as a non-degree student may be applied toward a master's degree. Please note **H** below.
- E. As many as six (6) semester hours of graduate credit from other accredited institutions may be transferred to the student's program with the

approval of the appropriate department chairman and the Graduate Dean provided that the course work transferred falls within the six-year period allowed for the degree. Please note G below.

- F. If a student has received regular or conditional admission, as many as twelve (12) semester hours of course work may be taken by extension and applied toward a master's degree provided that such courses are taught by a member of the University of Southern Mississippi faculty. In secondary education extension credit will be confined to six (6) semester hours in secondary education and six (6) in the content area.
- G. However, a student may apply a total of no more than twelve (12) semester hours by extension and transfer toward a master's degree.
- H. A total of no more than nine (9) semester hours of transfer work and non-degree work may be applied toward a master's degree.
- I. No more than nine (9) semester hours in workshop or conference credit may be applied toward a master's degree.

IV. The Master's Committee

The student's work toward the master's degree is supervised by a departmental committee composed of a chairman and two members recommended by the department chairman and appointed by the Graduate Dean.

V. The Minor Field

If a minor field is required in the master's program, it shall consist of a minimum of nine (9) semester hours of course work.

VI. The Master's Thesis

Although the degree of Master of Arts usually entails the writing of a thesis, the thesis requirement is optional with the departments for the Master of Science and the Master of Education degrees. Students intending to pursue a degree higher than the master's are encouraged to write a thesis.

A separate bulletin outlining University requirements concerning the preparations of theses is available in the Graduate Office.

VII. Examinations

- A. The aptitude phase of the **Graduate Records Examinations** or the **Graduate Management Admission Test** is required for admission into the Graduate School. Individual departments may require the advanced area tests.
- B. The Graduate School Foreign Language Test is required for some master's degrees, particularly the Master of Arts. Languages other than French, German, Spanish, and Russian must be approved by the department chairman and the Graduate Dean. Students may procure the proper registration forms in the Office of the Director of Student Counseling.
- C. In addition to regular examinations, final comprehensive examinations are required for master's degrees. The major department will determine whether the comprehensive examination will be written or oral or both. The written comprehensive, if required, will be prepared by the student's committee and will cover the area of the major field. If an oral examination is required, the chairman of the student's committee will send written notices of the time and place of the examination. Comprehensive examinations, whether written or oral, will be administered no later than the last week of the semester/term in which the student expects to receive his degree and the results reported by the department chairman to the Registrar and to the Graduate Office no later than the last day for presen-

ting signed theses to the Graduate Office. The examination may be administered earlier in the semester/term if the department so desires. A student who fails the comprehensive examination may not retake the examination until its next regular administration and may repeat the examination only once.

SPECIALIST'S DEGREE REQUIREMENTS

The specialist's degree earned in the Departments of Educational Administration and Supervision, Business Education, Curriculum and Instruction, Counseling Psychology and Counselor Education, English, Home Economics Education, Music Education, Physical Education, Research and Foundations, Science Education, and Special Education provides sixth-year programs designed to prepare students for positions in school administration, advanced technical education for business, teacher training, counseling, and to develop research and evaluation specialists for the public schools. Individual programs and requirements are fully described in the departmental sections of this **Bulletin**.

Students who are seeking the specialist's degree must meet all degree requirements relating to the master's degree, must earn at least thirty-three (33) semester hours beyond the master's degree, must write an acceptable thesis and defend it on an oral examination, or complete a field-based problem, and must complete one full-time semester/term of residence taking all nine (9) semester hours on the Hattiesburg Campus.

A maximum of nine (9) semester hours in workshop or conference credit may be applied toward a specialist's degree.

A maximum of nine (9) semester hours earned as a non-degree student may be applied to the specialist's degree.

THE MASTER OF PHILOSOPHY DEGREE REQUIREMENTS

The Master of Philosophy (M.Ph.) provides a directed degree beyond the master's in a subject area and is intended primarily for teaching careers in high schools and junior colleges. At present the Southern Association of Colleges and Schools requires that "in all colleges at least forty percent of the teaching faculty should possess professional preparation equivalent to two years of advanced study beyond the bachelor's degree." This degree more than fulfills this requirement and in addition provides an intermediate stepping stone for the student who wishes to pursue the Doctor of Philosophy at a later time. (Students in history should refer to the departmental section where the complete requirements for this discipline are described.)

General Requirements

- I. The program consists of a minimum of thirty (30) hours of work beyond the master's degree or sixty (60) semester hours beyond the bachelor's degree in one subject matter area of which no more than four (4) hours can be in thesis research. With departmental permission, a related minor of nine (9) semester hours can be elected. At least one-half of the work in both the major and minor areas must be in courses numbered 600 or above. No more than twelve (12) quarter or nine (9) semester hours by extension or transfer can apply to the degree nor is any institute or project credit applicable. Junior college teachers can substitute a course in the philosophy and administration of the junior college for one of their minor area courses.

- II. Proficiency in a foreign language or, with departmental permission, in computer science or statistics is required unless the student's master program included such a requirements
- III. One semester/term of full-time work on the Hattiesburg Campus constitutes the residency requirement for the degree.
- IV. A departmental qualifying examination, a thesis of considerable scope, a written comprehensive examination covering the entire discipline, and a final oral examination of the thesis are required.
- V. Since the work done for the Master of Philosophy degree is applicable to the Doctor of Philosophy degree, it can be awarded only by departments authorized to grant the Doctor of Philosophy degree, and all departments presently so authorized are permitted to grant the Master of Philosophy.

Completion of the Doctor of Philosophy Degree

1. In order to achieve the Doctor of Philosophy degree the student holding a Master of Philosophy degree must take at least twenty-seven (27) additional hours of course work, of which nine (9) semester hours may be in research leading to the dissertation and of which eighteen (18) must be in courses numbered 600 or above.
2. He must meet the residency requirements as stated in the doctoral degree requirements.
3. He must achieve proficiency in a second language (or in computer science or statistics) if he has not previously done so.
4. He is required to take a rigorous written examination in the specialized area of his discipline in which he plans to write his dissertation.
5. He must write an acceptable dissertation and defend it orally.

DOCTORAL DEGREE REQUIREMENTS

A convenient checklist of doctoral degree requirements may be procured in the Graduate Office.

I. Credit Hours

All doctoral degrees entail a minimum of seventy-eight (78) semester hours of course work beyond the bachelor's degree or forty-eight (48) semester hours of course work beyond the master's degree.

II. Time Limitations

Courses taken above the master's degree or its equivalent which will fit into the degree program but which are six or more years old at the time of admission to the advanced graduate program may be counted toward meeting degree requirements when recommended by the department chairman and approved by the Graduate Dean.

The degree requirements must be completed within a period of six years after the student has been admitted to advanced graduate standing at the University of Southern Mississippi.

III. Credit Hour Limitations

- A. A minimum of thirty-two (32) semester hours of work beyond the master's degree must be earned on the University's Hattiesburg Campus.
- B. Transfer of credit for graduate work done at other institutions must be approved by the department chairman and Graduate Dean. Final evaluation of and acceptance of transfer credit will not be made until the stu-

dent has been in residence for one semester/term. Transfer of credit for doctoral degree programs is limited to not more than six (6) semester hours or nine (9) quarter hours beyond the master's degree. Exceptions to this restriction may be made with the approval of the department chairman and the Graduate Dean.

- C. No credit earned in workshops or conferences can be applied toward a doctoral degree.
- D. Credit earned as a non-degree graduate student cannot be applied toward a doctoral degree.

IV. Residency

For residency requirement for a doctoral degree, please see page 39.

V. The Doctoral Committee

The student's work toward the doctoral degree is supervised by a departmental committee composed of a chairman and four members recommended by the department chairman and appointed by the Graduate Dean.

VI. The Minor Field

If a minor field is required in the doctoral program, it shall consist of twelve (12) semester hours of course work and may consist of courses from a number of related areas.

VII. Examinations

- A. The aptitude phase of the **Graduate Record Examinations** or the **Graduate Management Admission Test** is required for admission into the Graduate School. Individual departments may require the advanced area tests.
- B. The Miller Analogies Test is a departmental option for doctoral students in the College of Education and Psychology.
- C. The foreign language and statistics requirements for the doctoral degree may be fulfilled in several ways:
 - 1. The Doctor of Education degree does not require foreign language proficiency. However, the student must establish proficiency in statistics or computer science either by examination or by completing a prescribed course sequence, the credit hours for which do not apply toward the degree. Doctor of Music Education students refer to doctoral programs in music education.
 - 2. The Doctor of Philosophy degree requires either (a) proficiency in two languages, (b) proficiency in one language and in statistics or computer science, or (c) proficiency in one language and the completion of a nine-hour minor, the hours for which do not apply toward the degree. The procedure for satisfying proficiency in a specific computer language has been approved by the Graduate Council and is administered by the Department of Computer Science and Statistics.
A request to use a language (including native language) other than French, German, Spanish, or Russian shall present evidence of research reported in the language, e.g., a bibliography, and evidence of the purpose to which the language will be put in the doctoral dissertation and be approved at each level of: Major Professor, Department Chairman, Dean of the School, Language Committee of the Graduate Council, and the Graduate Council. A score of 460 or above is considered proficient on the standardized Princeton Examination in French, German, Spanish, and Russian,

Foreign language proficiency will be accepted from another institution provided the examination (GSFLT) was a part of a completed degree program. A student may satisfy the option of a foreign language by successfully completing at least nine (9) semester hours (or equivalent proficiency) in an approved foreign language with grades of C or better. The particular option followed by the student must have the approval of the department chairman and the Graduate Dean. Since the purpose of the foreign language requirement is to assist in the conduct of the major research, the requirement will be met prior to the approval of the dissertation proposal.

- D. All students must have a written and/or oral doctoral qualifying examination in their field, and in the College of Education and Psychology in the **Foundations of Education** as well. This examination should be taken during the first semester/term of the student's enrollment and is designed both to judge the student's fitness to pursue doctoral work and to guide his advisory committee in planning his program. The qualifying examination may be retaken only once.
- E. At the completion of his course work and other examinations, the doctoral student is required to take a written and/or oral comprehensive examination in his major and minor field. If a student does unsatisfactory work on the comprehensive examinations, he may be granted a second examination at the next regularly scheduled time, or later. His committee will recommend the conditions to be met before the examination may be repeated. The comprehensive examinations may be retaken only once.
- F. After the dissertation has been accepted and after all required course work has been completed, but at least four weeks before the candidate is scheduled to receive his degree, a final oral examination on the dissertation and related fields will be conducted by the student's advisory committee and any other faculty members designated by the Graduate Dean. The examination will be open to any member of the graduate faculty.

VIII. The Dissertation

- A. The dissertation topic must be approved by the student's major professor and advisory committee and must be an original and significant contribution to knowledge in the chosen field.
- B. A separate bulletin outlining University requirements concerning the preparation of dissertations is available in the Graduate Office.
- C. The student should register for 898-Dissertation (a minimum of 3 semester hours)-during the semester/term in which he defends his dissertation.

IX. Documents

The doctoral student must file a number of documents with the Graduate Office.

- A. After his doctoral committee has been appointed and his qualifying examination completed but before he has passed twenty-seven (27) hours of doctoral course work, he should prepare in conjunction with his adviser a "Doctoral Planning Sheet," one copy of which is to go to each member of his committee and two copies to the Graduate Office.
- B. After the student has completed all the requirements for the doctoral degree other than the dissertation but at least one semester/term prior to

graduation he should file two copies of the "Application for Candidacy" form with the Graduate Office and one copy with his adviser.

- C. The student should present two copies of the "Applications for Degree" form, properly stamped by the Business Office, to the Graduate Office during the semester/term preceding that of graduation.
- D. When completed, the student's file in the Graduate Office should contain, in addition to the three documents described above, statements from his adviser and/or department chairman appointing his doctoral committee, approving his dissertation prospectus, and verifying the successful completion of his qualifying and comprehensive examinations and dissertation defense. Also contained in his file should be statements of proficiency in language and/or statistics.

Residency

Residency "refers to a period during which the candidate is on the campus engaged in intensive study, sustained association with faculty members and other colleagues who share common scholarly and professional interests, attendance at seminars and colloquia, intensive reading and familiarization with library resources, consultation with specialists in other disciplines and resource centers, and the opportunity for broadened exposure to current intellectual issues as they are revealed in various campus offerings. In short, the requirement is not an inflicted ritual, but an opportunity."¹

The residency requirements for the doctoral degree can be fulfilled by the completion of 24 graduate hours (not to include more than 3 hours Field Problems) of continuous study on the Hattiesburg Campus within the time limit of a minimum of two consecutive semesters (including the full summer term). During this period the student is obligated to devote full time to graduate work and to earn at least 12 semester hours of credit in each of the two semesters. Residency may begin only after the student is admitted to a doctoral program as a regular student.

A student should not attempt to fulfill the residency requirements if he/she is gainfully employed full-time.

A student who holds a fellowship or assistantship may fulfill the residency requirement by earning a total of 24 semester hours within three consecutive semester/terms.

While the above are generalized University residency requirements, students are reminded that many departments have additional residency requirements and some departments have specialized options to meet particular needs. Therefore, all residency plans must be approved in writing by the department chairmen before residency is begun.

¹R. Kruh, Council of Graduate Schools in the United States, September, 1977.

COLLEGE OF BUSINESS ADMINISTRATION

Graduate Degrees 1980-1981

Department/School	Major	Degree
College of Business Administration	Business Administration	Master of Business Administration
School of Professional Accountancy	Accounting	Master of Professional Accountancy
Economics	Economics	Master of Science

REGIONAL CAMPUSES

Gulf Park Campus	Business Administration	Master of Business Administration
Natchez Campus	Management	Master of Science

COLLEGE OF BUSINESS ADMINISTRATION

Joseph A. Greene, Jr., Dean
Howard O. Jackson, Assistant Dean
Jack C. Wimberly, Coordinator of Graduate Studies

PURPOSE

One of the objectives of the College of Business Administration is to provide quality education at the master's degree level for those currently working in business, military personnel with a need for education in management, and college graduates who intend to pursue further graduate work elsewhere or add to their knowledge before entering the business world.

To achieve its objective the College has recruited qualified graduate faculty and limits its students to those who demonstrate good potential for doing graduate work.

DEPARTMENTS AND GRADUATE DEGREE PROGRAMS

Within the College of Business Administration the following graduate degree programs are offered: a Master of Business Administration, a Master of Professional Accountancy, and a Master of Science in Economics. Inquiries concerning the graduate programs may be addressed to Coordinator of Graduate Studies, College of Business Administration, Southern Station, Box 5096, Hattiesburg, Mississippi, 39401.

USM-Gulf Park and USM-Natchez offer graduate programs in business. Inquiries concerning those programs should be addressed to Coordinator of Graduate Studies, USM-Gulf Park, Long Beach, Mississippi 39560 and Coordinator of Business, USM-Natchez, Natchez, Mississippi 39120, respectively.

On the Hattiesburg Campus a number of graduate fellowships are available. Students with good undergraduate records are encouraged to apply at the time they apply for admission to the Graduate School. To be considered, the student must normally have a 3.0 average on his last two years of undergraduate work and an acceptable score on the **Graduate Management Admission Test**.

ADMISSION STANDARDS

Regular admission is normally granted to applicants who graduated from colleges and universities approved by a recognized accrediting agency whose official transcripts and test scores on the **Graduate Management Admission Test** total (a) 1,000 points based on the formula: 200 times the grade point average of the last two years of undergraduate study (4.0 scale), plus the GMAT score or (b) 950 points based on the formula: 200 times the overall undergraduate grade point average plus the GMAT score. In either (a) or (b) above the GMAT score must be greater than 400 points. Either low grades on important subjects or a low test score may prevent admission even if the standard is met.

Conditional admission is granted to students who do not meet the above criteria but are considered good prospects for graduate study. The conditional graduate student must make grades of **B** or better on each of the first three graduate courses taken to qualify for regular admission. Only a limited number are admitted on this basis.

A graduate student admitted to the Graduate School of the University on a non-degree basis must take the **Graduate Management Admission** Test during his first semester of attendance and make official application to the College of Business Administration if he wishes to continue his graduate work for a degree. No more than nine (9) semester hours earned while classified as a non-degree graduate student may be applied toward a graduate degree from the College.

Transfers from other graduate schools, including USM regional campuses, must meet the admission requirements outlined above. In addition, no more than six (6) semester hours of appropriate transfer credit with grades of **B** or above are accepted.

DEGREE REQUIREMENTS

The student must complete a minimum of thirty-three (33) semester hours of prescribed work with a **B** average for all degrees; all general requirements of the Graduate School must be met, the appropriate curriculum requirements completed, and an oral/or written examination passed unless excused for exceptional performance.

DEGREE PROGRAMS IN BUSINESS ADMINISTRATION

Master of Business Administration

The Master of Business Administration program is primarily designed to prepare the student for a position of responsibility in business or industry. However, it also is used as preparatory graduate work for the doctoral degree or for teaching in junior colleges where a teaching certificate is not required. The program is broad in nature and aimed at developing general competence in overall management.

Research reveals that individuals with technical or other specialized degrees frequently discover that, after experiencing initially satisfying careers in their specialties, further promotions require a transition into the managerial area. The MBA program supplements the education of the specialist and should enable him to make the transition more readily. For this reason, the MBA program includes many students with undergraduate degrees in other fields as well as those who majored in business or economics as undergraduates.

The student who graduated from a program in business at the undergraduate level may complete his program in one year provided he has retained the proficiencies in the areas of study including mathematics, statistics, and the use of the computer. If his work was done several years ago or he is weak in one of the areas, he should remove his deficiency before taking a graduate course requiring the use of the basic tool.

The student who graduated in some field other than business is expected to spend two semesters removing his deficiencies. The courses numbered 604 may be used for this purpose but do not count in meeting degree requirements.

The following courses are required as prerequisites: Principles of Accounting (6 hours) or ACC 604, Financial Accounting Analysis; Principles of Economics (6 hours) or ECO 604, Economic Analysis; MAT 312 (or equivalent) and Statistics (6 hours); Principles of Management or adequate substitute (3 hours); Principles of Marketing or adequate substitute (3 hours); Business Finance (3 hours); Legal Environment of Business (3 hours); Money and Public Policy (3 hours); Fortran or equivalent (3 hours).

The student may take a graduate course in one area in which he has the prerequisite while completing the prerequisite for another graduate course.

The core requirement for the MBA regardless of emphasis chosen is as follows:

Hours		Hours	
ACC 625	3	MGT 625	3
ECO 625 or 606	3	GBA 670	3
FIN 625	3	Field Emphasis	9
GBA 625 or 615	3	Elective	3
MKT 625	3		<u>33</u>

The student may select a field emphasis as follows:

Accounting: Three courses selected from ACC 605, 610, 620, 630.

Economics: ECO 608, plus two courses selected from ECO 610, 630, 670 (ECO 606 and GBA 625 to be selected in core).

Marketing: MKT 635, 640, 650 (GBA 625 to be selected in core) .

Management: MGT 620 and two courses at the 600 level depending upon the interest and needs of the student as approved by his adviser (GBA 615 to be selected in core).

Real Estate: REI 640, 650 and REI 534 or 560.

Finance: FIN 630, 652 and one elective approved by adviser.

General Business: Three courses at the 600 level from any of the departments depending upon the interest and needs of the student as approved by his adviser.

Public Administration: PS 700, 720, 770.

The MBA student may not take more than one course at the 500 level to apply toward his degree. Thirty-three hours are required for graduation.

Master of Science in Economics

The Master of Science in Economics is designed to prepare students for positions as economists in education, business, or government. It also provides sufficient background for doctoral work in the field. It differs from the Master of Business Administration degree in that it is more specialized in the field of Economics. Yet it is designed so the student must have a basic understanding of all phases of the business world and may choose a minor, if he so desires, in an area of business. It gives the graduate student who has some background in business subjects the option of concentrating more on the operation of the economy rather than specific areas of business.

The student admitted to this degree program must meet all entrance requirements as specified for the Master of Business Administration degree.

A Master of Arts degree in Economics is available through the College of Liberal Arts.

The recommended minor in Economics for a student outside the College of Business Administration consists of ECO 606, ECO 608, and two prescribed electives.

Graduate students majoring or minoring in Economics who qualify are encouraged to join Omicron Delta Epsilon, the national honorary economics society.

Curriculum Requirements

Hours		Hours	
ECO 606	3	ECO 670	3
ECO 608	3	GBA 625	3
ECO 610 or 692	3	Thesis or Electives	6
ECO 630	3	Minor	9

A maximum of twelve hours may be taken at the 500 level.

Minor must include MGT 670 if undergraduate degree is not in Business.

SCHOOL OF PROFESSIONAL ACCOUNTANCY

Jerold J. Morgan, Director

The School of Professional Accountancy is a school within the College of Business Administration. Emphasis is placed on the preparation for professional examinations in both the public accounting and management accounting areas. Enrollment in the School's graduate program is limited to those students who show a high probability of success.

Master of Professional Accountancy

The School offers one degree—the Master of Professional Accountancy. The program leading to the MPA is essentially the culmination of a five-year program. It is intergrated with the Bachelor of Science in Business Administration with majors in Industrial and Institutional Accounting or in Accounting—Data Processing. Thus, a student who earns the BS in BA with a major in one of the accounting options may normally complete the MPA program with one year's additional work. A minimum of thirty (30) hours of graduate work is required.

Students with a variety of educational backgrounds may enter the program. Students who do not have a baccalaureate degree are required to meet both the University core requirements and the College of Business Administration core requirements for undergraduate students. (See Undergraduate **Bulletin**). Students who have a baccalaureate degree from an accredited college or university must either transfer or take the following business environment and tool courses:

Algebra, Applied Business Mathematics, and Calculus (9 hours)	Business Finances (3 hours) Legal Environment of Business (6 hours)
Principles of Economics (6 hours) or ECO 604, Economic Analysis	Fundamental of FORTRAN (3 hours) Money and Public Policy (3 hours)
Business Statistics (6 hours)	Administrative Policy and Decision Making (3 hours)
Principles of Management (3 hours)	
Principles of Marketing (3 hours)	

The following lower division accounting courses are also required:

Principles of Accounting (6 hours)	Cost Accounting (6 hours)
Intermediate Accounting (6 hours)	Income Tax Accounting (3 hours)
Fund Accounting (3 hours)	Auditing (3 hours)
Advanced Accounting I (3 hours)	

Professional level courses common to all candidates are as follows:

Accounting Courses:

ACC 410*or 510-Auditing II	ACC 605-Advanced Accounting Theory
ACC 402 or 502-Advanced Accounting II	ACC 680-Legal Aspects of Accounting
ACC 405 or 505-Current Accounting Theory and Research	ACC 610-Advanced Problems in Public Accounting
ACC 430 or 530-Federal Income Tax Accounting II	ACC 630-Tax Planning and Research
	ACC 640-Contemporary Problems in Accounting

*Courses with both a 400 and 500 designation may be taken at either the undergraduate (400) level or the graduate (500) level. A minimum of ten courses must be taken at the graduate level with at least six courses numbered over 600.

Other Courses:

ECO 606-Economic Analysis for Business or ECO 625-Managerial Economics

ECO 608-Economic Analysis for Business II, or GBA-615 Operations Research, or

GBA 625-Statistical Analysis for Decision Making

Admission to the Program

Students who have not completed a baccalaureate degree may be admitted to the School of Professional Accountancy program upon completion of ninety (90) semester hours of undergraduate work including at least twelve (12) semester hours credit in accounting courses numbered above 300. A minimum overall grade point average of 2.75 is required with a minimum grade average of 3.00 in accounting courses numbered above 300. Admission to the program is required for enrollment in ACC 402, 405, 410, 430, or 480. Admission to the Graduate School is required before 500 level and 600 level courses may be undertaken. Admission standards for the Graduate School are the same as those set out in this **Bulletin** for graduate study in Business Administration.

Students who begin the program after they have earned a baccalaureate degree in another area may enroll in the College of Business Administration until they have completed the twelve (12) hours of lower division accounting courses required for admission to the professional accounting program. Others who have met this requirement may apply immediately for the graduate program. While admission to the Graduate School is not required until courses numbered 500 and above are attempted, the student is urged to make application to the Graduate School as soon as he is eligible.

Graduation and Retention Standards

Students must earn a minimum 3.0 grade average in courses numbered 500 and above as a condition for graduation. If a student earns a 2.0 or lesser grade average in any semester, or if his grade average for required courses falls below 2.5, he is placed on probation by the School. After one semester of probation, a student is denied admission to further professional accounting courses unless significant improvement can be shown during the probationary semester. After admission to the MPA program, a student is allowed to repeat a maximum of two courses to improve his grade average. No more than one repeat is allowed for courses numbered 500 or above.

COLLEGE OF EDUCATION AND PSYCHOLOGY

Graduate Degrees 1980-1981

Department	Major	Emphasis Area	Degree
Master's Level			
Adult Education	Adult Education		Master of Education
Business Education	Business Education		Master of Education Master of Science
		Business Teacher Education Distributive Education Vocational Teacher Education	
Counseling Psychology and Counselor Education	College Counseling Counseling Psychology School Counseling		Master of Science Master of Science Master of Education
Curriculum and Instruction	Early Childhood Education Elementary Education Secondary Education Reading		Master of Education Master of Education Master of Education Master of Science Master of Science
Educational Administra- tion and Supervision	Educational Administration and Supervision		Master of Education
		Supervision of Instruction	
Industrial and Vocational Education	Industrial and Vocational Education Industrial Arts		Master of Science Master of Science
Psychology	Psychology		Master of Arts Master of Science
		Mental Health School Psychology	
Research and Foundations	Educational Media and Technology		Master of Education
Special Education	Special Education		Master of Education
		Emotionally Disturbed Gifted Mentally Retarded Physically Handicapped Specific Learning Disability Visually Impaired	

Department	Major	Emphasis Area	Degree
Specialist's Level			
Adult Education	Adult Education		Specialist in Education
Business Education	Business Education		Specialist in Education
Counseling Psychology and Counselor	Counseling and Guidance		Specialist in Education
Curriculum and Instruction	Elementary Education		Specialist in Education
	Early Childhood Education		
	Secondary Education		Specialist in Education
	Reading		Specialist in Education
Educational Administra- tion and Supervision	Educational Administration and Supervision		Specialist in Education
	Administration of Occupational Education		
	Curriculum and Supervision		
	Elementary Administration		
	General Administration		
	Higher Education Administration		
	School Business Management		
	Secondary Administration		
Industrial and Vocational Education	Industrial and Vocational Education		Specialist in Education
Research and Foundations	Educational Media and Technology		Specialist in Education
	Educational Research		Specialist in Education
Special Education	Special Education		Specialist in Education

Department	Major	Emphasis Area	Degree
Doctor's Level			
Adult Education	Education	Adult Education	Doctor of Education Doctor of Philosophy
Counseling Psychology and Counselor Education	Counseling Psychology		Doctor of Philosophy
Curriculum and Instruction	Education	Elementary Education Secondary Education	Doctor of Education Doctor of Philosophy
Educational Adminis- tration and Supervision	Education	Education Administration and Supervision Higher Education Administration	Doctor of Education Doctor of Philosophy
Psychology	Psychology	Clinical Psychology Developmental Psychology Experimental Psychology	Doctor of Philosophy
Special Education	Education	Special Education	Doctor of Education Doctor of Philosophy

COLLEGE OF EDUCATION AND PSYCHOLOGY

Bobby D. Anderson, Dean
Gary S. Rush, Assistant Dean

Requirements for Admission to Graduate Programs

Admission to the Graduate School for study in the College of Education and Psychology requires a specific grade point average and an appropriate GRE score. (See General Admission Requirements.) Any individual who does not meet the general admission requirements may request additional consideration of his application by appealing to the appropriate department chairman. He may be admitted to a graduate program if he receives the approval of the department chairman, the Dean of the College of Education and Psychology, and the Dean of the Graduate School.

Anyone holding a bachelor's degree from an accredited institution may be admitted as a non-degree graduate student. A non-degree graduate student is not considered to be in a graduate program leading to a degree. If the student demonstrates proficiency in graduate work, he may make application for a graduate degree program and, if approved, the student may use up to nine (9) semester hours of work taken as a non-degree graduate student in the degree program.

Those applicants who wish to study for a master's degree in any area of professional public school work should study for the Master of Education degree, and therefore, must first hold or qualify to hold a Class A teaching certificate based on a baccalaureate degree in the area in which they wish to concentrate. A Master of Education degree applicant who does not yet qualify for an A certificate may be admitted to the Graduate School, but must meet the requirements of the State of Mississippi for an A certificate in teaching before the degree will be awarded. However, upon the recommendation of the departmental chairman, the Dean of the College of Education and Psychology may waive the requirements of satisfying certification requirements for those students currently employed or preparing for employment in junior or senior colleges, non-public institutions, or positions not requiring certification. In the event that certification requirements are waived, it is incumbent upon the student to recognize this limitation upon the scope of the areas within which he might seek employment in the future.

In the College of Education and Psychology, the minimum requirement for a master's degree is thirty (30) semester hours; the specialist's degree requires a minimum additional thirty-three (33) semester hours; and the doctoral degree requires a minimum of eighty-four (84) semester hours beyond the bachelor's degree.

DEPARTMENT OF ADULT EDUCATION

These programs, by nature interdisciplinary and flexible, offer personnel from all types of adult educational agencies opportunities for upgrading and building on professional experience. Such agencies include vocational-technical centers, industrial organizations, the armed forces, civic organizations, public school systems, junior and senior colleges, universities, the Cooperative Extension Service, regional development groups, and others. AA and AAA certification requirements as set by the Mississippi Department of Education may be met through these programs.

In accordance with admissions procedures, the student, in collaboration with his appointed adviser, will work out a program of studies reflecting his long term goals and interests.

Master of Education in Adult Education

To be admitted to the master's program on a regular basis the applicant must have an undergraduate grade point average of 2.75 and a combined score of 750 or above on the Aptitude Section of the GRE. An applicant not meeting the requirements of regular admission may be admitted on a conditional basis as specified elsewhere in this **Bulletin**.

Curriculum Requirements

	Hours
ADE 576, 601, 607	9
ADE 540, IVE 535, or REF 619.....	3
REF 601, 604	6

In addition to the eighteen (18) hours specified above, a minimum of twelve (12) hours or four courses is to be selected that relates to the student's goal. These courses must be approved by the student's adviser.

Specialist's Degree in Adult Education

To be admitted to the specialist's program on a regular basis the applicant must have a grade point average no lower than 3.25 and a combined score of 800 or above on the Aptitude Section of the GRE. An applicant not meeting these requirements may be admitted conditionally as specified elsewhere in this **Bulletin**.

Curriculum Requirements

A minimum of thirty-three (33) hours of graduate work beyond the master's level with twelve (12) hours in adult education and educational foundations, including any of the specified courses for the Master of Education not previously taken, and ADE 798 (Thesis) or an appropriate field study are required.

Four elective courses for twelve (12) hours are required. These courses of study may be selected from the content area of interest, goal-related interest of the student, or from relevant behavioral sciences with the approval of the student's adviser.

Doctor of Education and Doctor of Philosophy

Emphasis in Adult Education

To be considered for admission to the doctoral program on a regular basis the applicant must have a grade point average of 3.50 and a combined score of 850 or above on the Aptitude Section of the GRE. An applicant not meeting the requirements of regular admission may be admitted on a conditional basis as specified elsewhere in the **Bulletin**.

Curriculum Requirements

A minimum of fifty-four (54) hours beyond the master's degree is required. For either degree the student will select an area of emphasis from which to focus a research study.

The program for individual students worked out in collaboration with the adviser must provide for competency in: (1) the general field of adult education in the contemporary world, (2) education foundations, (3) psychology of adult learning, (4) social setting of adult learning, and (5) specific understanding required for the student's particular area of interest.

A minimum of four courses, twelve (12) hours, should be selected as supporting cognates or electives. All students in these programs will complete REF 761, REF 762, ADE 797 and ADE 898 (Dissertation) as part of their program.

Those seeking the Doctor of Philosophy degree will complete requirements in one language as specified by the Graduate School. The choice of language must be approved by the student's committee.

DEPARTMENT OF BUSINESS EDUCATION

The Department of Business Education offers programs of study leading to the Master of Science degree in Business Education, the Master of Education degree in Business Education, certification in Cooperative Office Education, certification in Distributive Education, and a specialist's degree in Business Education. Persons who plan to teach business subjects in junior and senior colleges, who desire certification in Cooperative Office Education, or who desire additional training for employment in the business world can find a program suited to their professional goals. A person pursuing any one of these programs, except Distributive Education, should have completed an undergraduate major in business teacher education. Candidates not having completed this major must become eligible for Class A certification as a business teacher as a prerequisite to the completion of all requirements for the first three programs listed. To be eligible for admission to the specialist's degree program, a person must present evidence of satisfactory scholarship in undergraduate and graduate study, hold a master's degree with a major in business education, have a well-defined professional goal, and meet other admission requirements of the University. The department requires a minimum score of 750 on the **Graduate Record Examinations** for admission to the master's degree program and a minimum score of 800 for admission to the specialist's degree program. Applicants must also meet general requirements for the Graduate School.

The appropriate master's degree will be conferred upon candidates who (1) meet the general requirements of the Graduate School and of the Department of Business Education; (2) complete the special curriculum requirements outlined below; and (3) pass an oral examination. In addition, a comprehensive written examination covering course content may be required by the Department of Business Education. A thesis is optional.

The specialist's degree will be conferred upon candidates who satisfactorily complete items (1) and (2) in the preceding paragraph, pass oral and written examinations, and complete a research problem.

A business student seeking the Doctor of Education or the Doctor of Philosophy degree may major in secondary education with an emphasis in business education and earn the degree through the Department of Curriculum and Instruction.

COMMON REQUIREMENTS FOR A MAJOR IN BUSINESS EDUCATION

Master of Science

All students pursuing an emphasis in Business Teacher Education must complete the following requirements:

	Hours
REF 601 and 604	6
(Specialized Subject Matter)	
FIN 640 and 685 plus three	
Business Administration electives	15
BED 651, 608, and 669	9

Master of Education

All students pursuing an emphasis in Business Teacher Education must complete the following requirements:

	Hours
REF 601 and 604	6
(Specialized Subject Matter)	
ECO 670, MGT 625, plus one	
Business Administration elective	9
BED 608, 651, 652, and 669	
plus one elective	15

All students pursuing a specialization in Distributive Education must complete the following requirements:

	Hours
REF 601 and 604	6
(Specialized Subject Matter)	
BED 554, 555, 556, and 669	12
MKT 524 or 650, 625, 635 and 640	12

It is recommended that REF 601, the research course, be taken early in each program.

CURRICULUM FOR COORDINATORS OF BUSINESS AND OFFICE EDUCATION PROGRAMS

Persons who hold a Bachelor of Science degree with a major in Business Teacher Education may take the three courses listed below to become certified as coordinators of business and office education programs.

Curriculum Requirements

Vocational Business Education:	Hours
BED 552, BED 553, and BED 670	9

SPECIALIST'S DEGREE PROGRAM

All students pursuing a specialist's degree in Business Education must complete the following requirements:

Select two:	Hours
REF 602, CPY 610, EDA 710	6
Specialized Subject Matter:	
BED 604 and 701	6
Select two or three:*	
BED 653, 654, 655, and 656	6 or 9
Select one or two:*	
BED 750 and 760	3 or 6
Field Problem__BED 794*	3
Specialist Thesis__BED 798	6
Outside Minor in Business Administration	6

*The student pursuing a specialist's degree in Business Education has an option to choose a 30-hour program plus a field problem for an additional three hours or a 27-hour program plus a thesis for an additional six hours.

Scholarship and Examination

In addition to achieving acceptable scores on admission examinations and maintaining satisfactory scholarship through the course work, a candidate will be re-

quired to achieve satisfactorily in both written and oral comprehensive examinations in business education.

Completion of Work for Degree

A candidate must complete the requirements for the specialist's degree within six years from the date of admission to candidacy.

DEPARTMENT OF COUNSELING PSYCHOLOGY AND COUNSELOR EDUCATION

The Department of Counseling Psychology and Counselor Education offers programs at the master's, specialist's and doctoral levels. Curricular tracks are designed to provide specialized preparation at the respective levels appropriate to populations served in community agencies, elementary and secondary schools, and in colleges and universities.

The doctoral program in Counseling Psychology has been approved by the Committee on Accreditation of the American Psychological Association.

MASTER'S DEGREE PROGRAMS

Admission Admission to master's programs is based upon the previous academic record, scores on the **Graduate Record Examination**, and recommendations. Minimum requirements for regular admission are a combined score of 800 on the Aptitude Section of the GRE and a grade point average of 2.75 or better on the last 60 hours of undergraduate work. Upon recommendation of the Admission Committee, conditional admission may be granted if the student has a GPA between 2.50 and 2.75 and a combined score of 900 or better on the GRE or a GPA of 3.00 or better and a combined score on the GRE of at least 650.

Application for Graduation Graduation is based upon:

1. Completion of required course work in respective program.
2. Satisfactory completion of comprehensive examination.
3. Satisfactory performance in the counseling practicum.

The Master of Education in School Counseling This degree is designed to meet academic and professional requirements for Class AA certification in school counseling, K-12. A Class A teaching certificate based on a baccalaureate degree is prerequisite for admission.

Required Courses

	Hours
REF 601, 602, 607	9
CPY 610, 611, 612, 614, 710, 711, 760	21
Total:	30

The Master of Science in College Counseling This program is designed to prepare graduates for a variety of counseling positions in the broad field of college student personnel services.

Required Courses

	Hours
REF 602	3
EDA 711 or 712	3
CPY 612, 614, 640, 660, 696, 760	18
Elective Courses	12
Total:	36

The Master of Science in Counseling Psychology Curriculum tracks are designed for pre-doctoral study in Counseling Psychology or as preparation for psychological counseling positions in health service agencies.

Pre-doctoral Track

Required Courses	Hours
Psychological Foundations	12
CPY 612,614,711,714,730,760,762	21
Research Foundations	12
Field Practicum	6
Thesis	6
Elective	3
	Total: 60

Mental Health Services Track

Required Courses	Hours
Psychological Foundations	12
CPY 730,612,614,710,711,712,714,760	24
Research	6
Field Practicum	12
Electives	12
	Total: 60

SPECIALIST'S DEGREE

The department offers the specialist's degree in Counseling and Guidance with emphasis in (1) School Counseling and (2) College Counseling and Personnel Work. As a sixth year advanced degree program, the specialist's curriculum presupposes a master's degree in counseling or its equivalent and requires completion of an approved program of study including a minimum of thirty-three (33) hours credit beyond the master's degree.

The curriculum for the specialist's degree is purposely designed to be flexible in order that candidates may develop greater specialization in an area related to their individual professional goals. Included in the course of study is a minimum of nine (9) semester hours credit in behavioral science foundations and an approved field study. The general requirements for the specialist's degree are as follows.

Admission

Minimum requirements for regular admission require a combined score of 850 on the Aptitude Section of the **Graduate Record Examinations** and a grade point average of 3.25 on previous graduate work. Upon recommendation of the Admissions Committee, conditional admission may be granted if the student has a GPA of at least 3.00 on previous graduate work and a combined score of 950 or better on the GRE or a GPA of at least 3.50 on previous graduate work and a combined score of at least 750 on the GRE. In addition applicants must:

1. Hold or qualify to hold a Class AA certificate in school counseling (school counseling majors only).
2. Have two years of counseling experience.
3. Furnish letters of recommendation from the supervisor of the master's level practicum experience and from the most recent employer.

Application for Graduation Graduation is based upon:

1. Completion of an approved program of studies containing a minimum of thirty-three (33) semester hours credit beyond a master's degree in counseling or its equivalent.
2. Satisfactory completion of a comprehensive examination.
3. Satisfactory completion of the field study.
4. Satisfactory performance in advanced practicum

DOCTOR OF PHILOSOPHY

The department offers the PhD degree in Counseling Psychology. A scientist-practitioner model provides the basic orientation for program planning. Such a model emphasizes the interrelatedness of psychological theory, research, and practice.

Minimum course requirements for the doctorate are ninety (90) semester hours not including research tools, dissertation, and internship. A minimum of thirty-nine (39) semester hours is required in the professional core and a minimum of twenty-four (24) semester hours is required in psychological foundation. Electives may be utilized to develop areas of specialization.

Admissions The department usually admits ten new students each year (based on a ratio of approximately one student for each full-time equivalent faculty member). Applications are processed once a year after March 1st for summer or fall admission. In reviewing applications, the committee will consider the following:

- (a) Aptitude scores on the **Graduate Record Examinations**
- (b) Previous grade point average
- (c) Recommendations of professors and professional employers/supervisors
- (d) Previous work experience
- (e) Ratings from on-campus interview
- (f) Research and publications

Minimum Admission Requirements

Regular: a minimum grade point average of 3.50 on previous graduate work and a combined score of 1000 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional: where granted, conditional admissions will be reserved for applicants who do not meet all of the regular admission requirements but who present evidence of outstanding potential for doctoral study. Such applicants must have a grade point average of at least 3.50 on previous graduate work and a GRE score of at least 1000.

Qualifying Examinations

The examinations will usually be taken during the second semester of doctoral study.

Comprehensive Examinations

Comprehensive examinations will be scheduled by individual appointment during or after the last semester in which the student is enrolled in courses listed on the approved course of study and will consist of written and/or oral questions.

Residency

Completion of the minimum residency requires full-time on-campus study for two consecutive semesters. Due to the clinical nature of the training involved in the program, it is highly recommended that students not apply until they can remain in residency for at least two years. During the initial two semesters of residency, students are expected:

1. To carry a minimum course load of twelve (12) hours per semester for two consecutive semesters or, in the case of a student on one-half time University assistantship, twenty-seven (27) semester hours work in consecutive semesters.
2. To participate in a variety of credit and non-credit departmental activities including three semesters of CPY 810, laboratory and practicum experiences, individual case work, field trips and other related professional activities.
3. To be relieved of job responsibilities with off-campus employers.

Internship

One year of pre-doctoral internship experience is required. Doctoral internships involve full-time responsibilities and are usually paid.

DEPARTMENT OF CURRICULUM AND INSTRUCTION

The Department of Curriculum and Instruction includes the areas of elementary education, early childhood education, reading, and secondary education. The department offers the following graduate degrees, majors, emphasis areas, and specialization areas:

Master of Education

Majors

Elementary Education
Early Childhood Education
Secondary Education

Specialization Areas:

Art	Mathematics
Biology	Music Education
Chemistry	Physical Education
Communication	Physics
English	Theatre Arts
Foreign Language	Science
Geology	Social Studies
Industrial Arts	

Master of Science

Majors

Reading
Secondary Education

Specialization Areas:

(See areas under **Master of Education.**)

Specialist in Education

Majors

Emphasis Areas

Elementary Education

Early Childhood Education

Reading

Specialization Areas:

Curriculum and Supervision in Reading

Clinical Reading

College Reading/Study Skills

Secondary Education

Specialization Areas:

(See areas under **Master of Education.**)

Doctor of Education and Doctor of Philosophy

Major

Emphasis Areas

Education

Elementary Education

Specialization Areas:

Early Childhood Education

Reading

Secondary Education

Specialization Areas:

(See areas under **Master of Education.**)

Reading

Only candidates holding a Class A certificate, or who exhibit willingness to meet Class A certification requirements at the undergraduate level prior to completion of a graduate degree program, will be admitted to the Department of Curriculum and Instruction. However, upon the recommendation of the department chairman, the certification requirement may be waived for a student pursuing a graduate degree in an area of secondary education or reading who is currently employed or preparing for employment in a junior or senior college, non-public institution, or for a position not requiring certification. In the event the certification requirement is waived, it is incumbent upon the student to recognize this limitation upon the scope of the areas within which he/she might seek employment in the future.

The Department of Curriculum and Instruction strongly recommends that a student gain one year of teaching experience before completing his/her master's degree program. No student will be eligible to receive a specialist's degree until he/she has completed at least two years of teaching experience. Three years of teaching experience is a requisite for a doctor's degree. The student should note the following teaching experience requisites for the various levels of certification under Mississippi's new certification requirements, effective September 1, 1981: Class AA certification - two years of teaching experience, Class AAA certification - three years of teaching experience, and Class AAAA certification - five years of teaching experience.

MASTER’S PROGRAMS

The Department of Curriculum and Instruction offers master’s degrees in elementary education, early childhood, reading, and secondary education.

The program of study at the master’s degree level is designed to increase the professional competency of the classroom teacher and to provide the course work necessary to meet standards of teaching certification at this advanced level.

The master’s degree program requires admission to a particular program, appointment of a graduate adviser, completion and submission of four copies of the application form for a master’s degree at least one semester in advance of the date of graduation, successful completion of the comprehensive examination, and completion of all course work requirements.

ADMISSION REQUIREMENTS

In order to be admitted on a regular basis to a master’s degree program, an applicant must have a grade point average of at least 2.75 (figured on an A equals 4.0 scale) for the last two years of undergraduate study. In addition, the applicant must make a combined score of at least 750 on the Aptitude Section (verbal and quantitative) of the **Graduate Record Examination**.

If an applicant does not meet the above requirements for regular admission, he/she may be admitted to a master’s degree program on a conditional basis in one of two ways:

- 1. By having a combined score of at least 750 on the Aptitude Section of the **Graduate Record Examinations** and by having a grade point average no lower than 2.5, or
- 2. By having a grade point average of at least 2.75 if he/she has scored lower than 750 on the Aptitude Section of the **Graduate Record Examinations**.

MASTER’S DEGREES

Master of Education Degree in Elementary Education

	Hours
REF 601, 604, 607	9
CIE 606, 705, 724, 725, 776	15
Elective	3
Select one course from the following for three (3) hours: CIE 706, 727, 729, 768, 778; GHY 617; REF 660; SCE 730, 731, 732, 733.	
CIE 698 (Thesis) or Elective*	3

*Students in the thesis program are to take CIE 698. Students in the non-thesis program are to select one elective for three (3) hours from the following: REF 632; EPY 774; EDA 600, 620.

Both the thesis program and the non-thesis program consist of thirty (30) required semester hours.

Students completing the thirty (30) semester hour thesis or non-thesis Master of Education degree program in elementary education may qualify for additional Class AA certification in remedial reading by (a) selecting CIE 706 as an elective in the elementary program and (b) completing the following additional reading courses for nine (9) semester hours: CIE 713, CIE 729, and CIS 754.

Master of Education Degree in Early Childhood Education

	Hours
REF 601, 604, 607	9
CIE 606, 770, 772, 776, 777, 778	18
CIE 698 (Thesis) or Elective*	3

*Students in the thesis program are to take CIE 698. Students in the non-thesis program are to select one elective from: CIE 705, 706, 724, 725, 727, 729, 768, 780; SCE 730, 731, 732, 733.

Both the thesis program and the non-thesis program consist of thirty (30) required hours.

Master of Science in Reading

	Hours
REF 601, 604, 607	9
CIE 606, 705, 729, 713, 622 or 733, and CIS 754	18
CIE 698 (Thesis) or Elective*	3

*Students in the thesis program are to take CIE 698. Students in the non-thesis program are to select one elective for three (3) semester hours from the following: CIE 724, 725, 727, 706, 768, or 776.

Both the thesis program and the non-thesis program consist of thirty (30) required semester hours.

Students completing the thirty (30) semester hour non-thesis Master of Science degree program in reading may qualify for additional Class AA certification in elementary education (provided the individual holds Class A certification in elementary education) by selecting one of the electives CIE 724, 725, 727, 768, or 776 in the Master of Science in Reading program and completing one other course in this sequence for three (3) additional semester hours.

Students in the thesis program may qualify for Class AA certification in elementary education (provided the individual holds Class A certification in elementary education) by completing two of the courses in the above sequence (CIE 724, 725, 727, 768, 776) for six (6) additional semester hours.

Master of Science Degree and Master of Education

Degree in Secondary Education

Plan I (Thesis Program-M.S. Degree)

Hours	Hours
REF 601, 604, 607	9
CIS 698	3
CIS 700	3

Plan II (Non-thesis Program-M.Ed. Degree)

Hours	Hours
REF 601, 604, 607	9
REF 632, CIS 754, CPY 610, or EPY 740	3
CIS 700	3

In addition to the fifteen (15) semester hour core requirement of Plan I and Plan II listed above, a specialization of at least fifteen (15) semester hours must be taken in one of the following areas:

Art	*Mathematics
Biology	Music Education
Chemistry	Physical Education
Communication	Physics
English	Theatre Arts
Foreign Language	**Science
Geology	***Social Studies
Industrial Arts	

*The student selecting mathematics as a specialization may use CIS 701 and/or CIS 710 in his/her program. If only one course is used, it must be substituted for a

mathematics (MAT) course. If both are used, the additional course must be substituted for EPY 740.

******The student selecting science as a specialization may use, with the approval of his/her adviser, a combination of science courses; however, a minimum of six (6) semester hours of graduate credit must be taken in each area of desired science endorsement for which the individual holds a Class A endorsement (effective September 1, 1981, under Mississippi's new Class AA certification requirements for endorsements in science). The student must meet the requirements for a Class AA endorsement in at least one science area. No more than three (3) hours of science education (SCE) courses may be used. To be used in an endorsement area, the SCE course must be in that area.

*******Courses may be taken in any one or a combination of the following areas: history, geography, political science, sociology, and economics.

Under certain conditions, other specialization areas may be selected with the approval of the department chairman.

Both the thesis program and the non-thesis program consist of thirty (30) required semester hours.

SPECIALIST'S PROGRAMS

The Department of Curriculum and Instruction offers specialist's degrees in elementary education, reading, and secondary education. The elementary student has the option of taking a major in elementary education (preferably in a subject area or areas) or a major in elementary education with an emphasis in early childhood education, providing he/she has taken, or is willing to take, the requisite course work in early childhood education.

The student pursuing a specialist's degree in reading can choose one of the three specialization areas: curriculum and supervision in reading, clinical reading, and college reading/study skills.

The student pursuing a specialist's degree in secondary education can choose a specialization from a number of teaching (subject) areas.

Entrance into a particular specialist's degree program presupposes that the student has completed, or is willing to complete, the course work required at the master's degree level.

All specialist's degree programs require a minimum of thirty-three (33) graduate semester hours beyond the master's degree, exclusive of the advanced graduate seminar (CIE/CIS 880).

The specialist's degree program requires admission to a particular program; submission of an approved program of studies; completion of all required course work, to include the completion of one full-time semester/term of residence taking all nine (9) semester hours on the Hattiesburg Campus; successful completion of the specialist's oral examination; and completion and defense of an approved thesis or field problem.

ADMISSION REQUIREMENTS

In order to be admitted on a regular basis to a specialist's degree program, an applicant must have a grade point average no lower than 3.25 on previous graduate work and a combined score of at least 800 on the Aptitude Section (verbal and quantitative) on the **Graduate Record Examinations**. If an applicant does not meet the above requirements for regular admission, he may be admitted to a specialist's degree program on a conditional basis one of two ways:

1. By having a combined score of at least 800 on the Aptitude Section of the

Graduate Record Examinations and by having a grade point average no lower than 3.00, or

2. By having a grade point average no lower than 3.25 on previous graduate work and by having a combined score of at least 750 on the Aptitude Section of the **Graduate Record Examinations**.

SPECIALIST'S DEGREE

Specialist's Degree in Elementary Education

Plan I (Thesis Program)

Hours	Hours
REF 602 3	EPY 740, 746, or
EDA 620 3	REF 818 3
CIE 728 3	CIE 880 1
CIE 762 3	CIE 798 (Thesis) 6

(Plan II Program)

Hours	Hours
REF 602 3	EPY 740, 746, or
EDA 620 3	REF 818 3
CIE 728 3	CIE 880 1
CIE 762 3	Elective 3
	CIE 794 (Field Problem) 3

In addition to the twenty-two (22) semester hour core requirement of Plan I and Plan II listed above, students pursuing the specialist's degree with a major in elementary education must complete at least twelve (12) hours in elementary education (preferably in a subject area or areas). Students who major in elementary education and desire an emphasis in early childhood education must complete at least twelve (12) hours in early childhood education instead of elementary education.

The specialist's program with a major in elementary education, with or without an emphasis in early childhood education, consists of a minimum of thirty-three (33) required hours beyond the master's degree, exclusive of the advanced graduate seminar (CIE 880).

Specialist's Degree in Reading

Plan I (Thesis Program)

Hours	Hours
REF 602 or 818 3	EDA 620 3
EPY 740, 742, 746	CIE/CIS 880 1
774, or 775 3	CIE/CIS 798 3

Plan II (Field Problem Program)

Hours	Hours
REF 602 or 818 3	EDA 620 3
EPY 740, 742, 746,	CIE/CIS 880 1
774, or 775 3	CIE/CIS 794 (Field Problem) 3
CIE 728 3	

In addition to the sixteen (16) semester hour core requirement of Plan I and Plan II listed above, the student must complete at least eighteen (18) semester hours in advanced reading from one of the three specialization areas described below. Each of the areas is built around course and practicum experiences necessary to build basic

competencies in the selected specialization area, while at the same time realizing and expanding on the previous experiences of the candidate.

Curriculum and Supervision in Reading. This specialization area includes a minimum of eighteen (18) semester hours in advanced reading courses designed to build competencies necessary to pursue a career as a reading consultant, materials development specialist, or elementary, secondary reading supervisor.

Clinical Reading. This specialization area includes a minimum of eighteen (18) semester hours in advanced reading courses designed to develop competencies necessary to pursue a career as a diagnostic evaluator or therapist in reading.

College Reading/Study Skills. This specialization area includes a minimum of eighteen (18) semester hours in advanced reading courses designed to develop competencies in teaching reading/study skills to freshmen at the junior or senior college level.

The specialist's program in reading consists of a minimum of thirty-three (33) required semester hours beyond the master's degree, exclusive of the advanced graduate seminar (CIE/CIS 880).

Specialist's Degree in Secondary Education

Plan I (Thesis Program)

	Hours		Hours
REF 602, 818	6	CIS 708	3
EPY 775 or EPY 742 or		CIS 880	1
EDA 620.....	3	CIS 798 (Thesis)	6

Plan II (Field Problem Program)

	Hours		Hours
REF 602, 818	6	CIS 708	3
EPY 775, EPY 742,		CIS 880	1
EDA 620.....	6	CIS 794 (Field	
(Select two of the above)		Problem)	3

In addition to the nineteen (19) semester hour core requirement of Plan I and Plan II listed above, a specialization of at least fifteen (15) hours must be taken in one of the specialization areas listed under the heading **Master of Science Degree and Master of Education Degree in Secondary Education**.

The student selecting mathematics as a specialization may use, with the approval of his/her adviser, as many as six (6) semester hours of credit from the following courses: CIS 701, 705, 706, 707, 710, and 723. If only one course is used, it must be substituted for a mathematics (MAT) course. If two courses are used, the additional course must be substituted for Epy 775, EPY 742, or EDA 620.

The student selecting science as a specialization may use, with the approval of his/her adviser, a combination of science courses; however, a minimum of nine (9) semester hours of graduate credit must be taken in each area of desired science endorsement for which the individual holds a Class AA endorsement (effective September 1, 1981, under Mississippi's new Class AA certification requirements for endorsements in science). The student must meet the requirements for a Class AAA endorsement in at least one science area. No more than three (3) hours of science education (SCE) courses may be used. To be used in an endorsement area, the SCE course must be in that area.

The specialist's program in secondary education consists of a minimum of thirty-three (33) required semester hours beyond the master's degree, exclusive of the advanced graduate seminar (CIS 880).

DOCTORAL PROGRAMS

The Department of Curriculum and Instruction offers Doctor of Education and Doctor of Philosophy degrees with a major in education and an emphasis in either elementary or secondary education. If a student desires to receive a Doctor of Philosophy degree, he/she should follow one of the doctoral programs outlined in this section and, in addition, gain proficiency in a foreign language.

The doctoral program with an emphasis in elementary education provides for specialization in both early childhood education and in reading. A student choosing an emphasis in elementary education, with or without a specialization in either early childhood education or in reading, must complete the requisite course work in that area prior to beginning doctoral study.

The doctoral program with an emphasis in secondary education provides for specialization in various teaching (subject) areas as well as in reading. A student specializing in a particular area must complete the requisite course work in that area prior to beginning doctoral study.

All doctoral programs consist of a minimum of eighty-four (84) graduate semester hours beyond the bachelor's degree, exclusive of the dissertation, statistics, and advanced graduate seminars (REF 761, REF 762, and CIE/ CIS 880). More than eighty-four (84) hours may be required in order to satisfy deficiencies which may exist in the student's background and preparation.

There are three distinct phases through which all students proceed in pursuit of the doctoral program. These include:

1. Phase One—involvement in procedures relative to gaining admission to a particular degree program, successful completion of the qualifying examinations, and appointment of the candidate's major professor and doctoral committee.
2. Phase Two—involvement in procedures relative to the development of a program of studies, successful completion of the foreign language requirement for students pursuing the PhD degree, acceptance of the doctoral prospectus, completion of the residency and course work requirements, successful completion of the comprehensive examination, and admission to candidacy for a doctoral degree.
3. Phase Three—involvement in procedures relative to approval of the dissertation.

For specifics concerning the above phases, the student should refer to departmental guidelines and the **Admission Requirements and Procedures** section and the **General Academic Requirements** section of the **Graduate Bulletin**.

ADMISSION REQUIREMENTS

In order to be admitted on a regular basis to a doctoral program, an applicant must have a grade point average no lower than 3.5 on previous graduate work and a combined score of at least 900 on the Aptitude Section (verbal and quantitative) of the **Graduate Record Examination**.

If an applicant does not meet the above requirements for regular admission, he may be admitted to a doctoral program on a conditional basis in one of two ways:

1. By having a combined score of at least 900 on the Aptitude Section of the **Graduate Record Examination** and by having a grade point average no lower than 3.25 on previous graduate work or
2. By having a grade point average no lower than 3.5 on previous graduate work and by having a combined score of at least 850 on the Aptitude Section of the **Graduate Record Examinations**.

DOCTORAL DEGREES**Doctor of Education Degree with Emphasis
in Elementary Education**

	Hours
REF 761, 762, 816, 893	12
EPY 742, 740, or REF 818	3
EDA 711 or 713	3
CIE____ (an advanced methods course)	3
CIE 862	3
CIE 880	3
CIE 797 and CIE 898	

In addition to the twenty-seven (27) semester hour core requirement listed above, students pursuing the doctoral degree with an emphasis in elementary education must complete at least twelve (12) hours in elementary education (preferably in a subject area or areas) and a minimum of nine (9) hours in a related field(s) outside of the Department of Curriculum and Instruction.

Students desiring a specialization in early childhood education must complete at least twelve (12) hours in early childhood education, instead of elementary education, and a minimum of nine (9) hours in a related field(s) outside the department.

Students desiring a specialization in reading must complete at least eighteen (18) hours in reading, instead of the twelve (12) hours in elementary education, and a minimum of nine (9) hours in a related field(s) outside the department.

Students seeking an emphasis in elementary education, with or without a specialization in either early childhood education or in reading, are to choose electives to complete a program consisting of a minimum of eighty-four (84) graduate semester hours beyond the bachelor's degree, exclusive of the dissertation, statistics, and advanced graduate seminars (REF 761, REF 762, and CIE 880). More than eighty-four (84) hours may be required in order to satisfy deficiencies which may exist in the student's background and preparation.

**Doctor of Education Degree with Emphasis
in Secondary Education**

REF 761, 762, 816, 893	12
EPY 775, 742, or REF 818	3
EDA 711 or 713	3
CIS____ (an advanced methods course)	3
CIS 880	3
CIS 797 and CIS 898	

The twenty-four (24) semester hours of required course work listed above serve as a core program for students pursuing the doctoral degree with an emphasis in secondary education. The doctoral program consists of a minimum of eighty-four (84) graduate semester hours beyond the bachelor's degree, exclusive of the dissertation, statistics, and advanced graduate seminars (REF 761, REF 762, and CIS 880). More than eighty-four (84) hours may be required in order to satisfy deficiencies which may exist in the student's background and preparation.

Of the total number of hours required of a doctoral student with an emphasis in secondary education, approximately one-half must be taken in one of the specialization areas listed under the heading **Master of Science Degree and Master of Education Degree in Secondary Education**.

With the approval of the department chairman, the student who will be assuming major responsibility for reading programs at the secondary or college level may use reading as a specialization area for his/her doctoral degree.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION

The programs in educational administration and supervision encompass the full range of administrative positions and lead to the master's degree, the specialist's degree, and the doctorate in education with an emphasis in educational administration. Programs at the master's degree level provide preparation in the elementary school principalship, the junior high school principalship, the high school principalship, and supervision of instruction. Programs at the specialist's and doctoral levels provide preparation for superintendency and central administrative staff positions. In addition, the program at the doctoral level provides preparation for college teachers in educational administration and persons desiring to prepare for administration in higher education.

The following course patterns for the different levels set forth only the minimum core requirements, and the electives selected to suit individual needs and objectives must be chosen with the advice and approval of the student's major professor. Therefore, it is mandatory that the student consult early in his program, and frequently thereafter, with his major professor concerning the selection of courses and sequence in which these courses will be taken.

DEPARTMENT POLICIES

The following departmental policies are supplementary to the rules and regulations of the University and the Graduate School as set forth elsewhere in this **Bulletin**.

PROGRAMS AND COURSES IN EDUCATIONAL ADMINISTRATION MASTER'S PROGRAMS

Admission

Regular:

A minimum grade point average of 2.75 and a combined score of 750 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional:

Departmental action provided the student has a score of 750 or above on the Aptitude Section of the **Graduate Record Examinations** and a grade point average no lower than 2.5 or a grade point average of 2.75 or above if the **Graduate Record Examinations** score is below 750.

Application for Graduation Graduation is based upon:

1. Completion of an approved program of studies consisting of a minimum of thirty (30) semester hours.
2. Satisfactory completion of the comprehensive examination.

Educational Administration

Hours

REF 601—Research: Its Introduction and Methodology	3
REF 607—Basic Course in Curriculum Development.	3

Select three (3) hours from the following:

REF 604, EPY 740, EPY 774, or EPY 775	3
EDA 600—Basic Course in Educational Administration and Supervision	3
EDA 620—Supervision of Instruction*	3
EDA 650—School Business Management*	3
EDA 698—Thesis. Credit is deferred until thesis is completed**	6
Total 18 or 24 hours	

Electives: 6 or 12 hours. Subject to the approval of the student's adviser, elective courses are to be taken as follows:

- 1) Nine (9) semester hours in Educational Administration and Supervision must be taken by students not writing a thesis. Six (6) semester hours are required for those students writing a thesis. In either option, three (3) semester hours must be selected from the following courses depending on program emphasis:

EDA 630—The Elementary School Principal	3
EDA 634—Secondary School Administration	3
 - 2) The one remaining elective course for those not writing a thesis may be taken in a related area
- *Prerequisite: EDA 600
 **Required only of students writing a thesis

Supervision of Instruction

	Hours
REF 601—Research: Its Introduction and Methodology	3
REF 607—Basic Course in Curriculum Development	3
CIE 728 or CIS 708	3
EDA 600—Basic Course in Educational Administration and Supervision	3
EDA 620—Supervision of Instruction*	3
EDA 720—Advanced Curriculum Development**	3
EDA 738—Practicum in Supervision**	3
EDA 689—Thesis. Credit deferred until thesis is completed***	6
Total 21 or 27 hours	

Electives: 3 or 9 hours. EDA 630 or EDA 634 is required as an elective. The remaining courses may be chosen from the related areas subject to the approval of the student's major professor.

*Prerequisite EDA 600

**Prerequisite EDA 620

***Required only of students writing a thesis

SPECIALIST'S DEGREES

Admission

Regular:

A minimum grade point average of 3.25 on previous graduate work and a combined score of 800 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional:

A grade point average between 3.00 and 3.25 on previous graduate

work and a **Graduate Record Examinations** score no lower than 800 or a grade point average no lower than 3.25 and a **Graduate Record Examinations** score between 750 and 800.

Application for Graduation Graduation is based upon:

1. Completion of an approved program of studies as determined by the student's committee and which may consist of more than the minimum thirty-three (33) semester hours of credit required for graduation.
2. Satisfactory completion of the comprehensive examination.
3. Successful defense of the research project or the field problem.

PROGRAMS

The specialist's degree students must have completed all courses or their equivalent in the master's degree program. Those courses not taken must be completed but will not count as part of the specialist's program. Additional electives are required for previously completed required courses.

A minimum of nine (9) semester hours in cognate areas is required in all of the specialist's degree programs. The department defines cognate areas as those courses which broaden and complement the student's program which are outside the areas of professional education. These courses and other electives will be chosen with the approval of the student's major professor and additional hours may be required to satisfy deficiencies in the student's program.

Administration

EDA 700, 704, 706, 710, 720, 736, 738

EDA 794 or EDA 798

Total—24 or 27 hours

Electives—6 or 9 hours in cognate areas

Secondary Administration

EDA 700, 704, 708, 710, 720, 738

EDA 794 or EDA 798

Total—21 or 24 hours

Electives—9 or 12 hours with 9 hours in cognate areas

Elementary Administration

EDA 700, 704, 710, 720, 738

EDA 794 or EDA 798

Total—18 or 21 hours

Electives—12 or 15 hours with 9 hours in cognate areas

School Business Management*

EDA 650, 698, 700, 704, 706, 708, 710

EDA 794 or EDA 798

Total—24 or 27 hours

Electives—6 or 9 hours from business oriented courses

Suggested courses are MGT 568, 572, 625; ACC 570; REF 712; FIN 640

*Prerequisites: EDA 600; CIF 607; REF 601

Administration of Occupational Education*

EDA 650, 700, 706, 710, 712, 717, 719; IVE 611

(21 hours from these courses)

EDA 794 or EDA 798

Total—24 or 27 hours

Electives—6 or 9 hours from the following cognate areas: Industrial

Psychology, Management Training and Development, Economic Development, Advanced Labor Economics, and Economic Geography

***Prerequisites are EDA 600, 620; REF 604**

Curriculum and Supervision*

EDA 708, 720, 738; REF 632

CIE 728 or CIS 708

EDA 704 or EDA 601

EDA 794 or EDA 798

Total—21 or 24 hours

Electives—9 or 12 hours with 9 hours in cognate areas

***Prerequisites are EDA 600, 620; REF 607, EPY 740**

Higher Education Administration*

EDA 704, 711, 712, 713, 715, 717, 719

CPY 640 or CPY 740

(18 hours from the above courses)

EDA 794 or EDA 798

Total 21 or 24 hours

Electives—6 or 9 hours in cognate areas

***Prerequisites are EDA 600 and REF 601**

DOCTORAL DEGREES

Admission

Regular:

A minimum grade point average of 3.50 on previous graduate work and a combined score of 900 on the aptitude phase of the **Graduate Record Examinations**.

Conditional:

A grade point average between 3.25 and 3.50 on previous graduate work and a **Graduate Record Examinations** score no lower than 900 or a grade point average no lower than 3.50 and a **Graduate Record Examinations** score between 800 and 900.

Qualifying Entrance Examination

1. Must be taken prior to the completion of eighteen (18) semester hours of study within the department.
2. May not be taken prior to the receipt of satisfactory GRE scores.
3. Regularly admitted doctoral students who fail the examination may repeat it upon the completion of nine (9) semester hours of credit after the semester in which the examination was taken.
4. The results of a master's degree comprehensive examination may not be substituted for this examination.

Planning Sheet

Planning sheets are completed after the qualifying examination has been passed and the committee appointed, but before the student has completed twenty-seven (27) semester hours.

Admission to Candidacy

Admission to candidacy should be submitted one semester prior to graduation and will be approved by the student's graduate committee upon:

1. Completion of an approved program of studies.
2. Satisfaction of the language and/or statistics requirement.

3. Completion of an approved dissertation prospectus.
4. Completion of the comprehensive examination.
5. Completion of the residency requirement.

Application for Graduation Graduation is based upon:

1. Meeting the departmental and Graduate School deadlines for receiving completed dissertation.
2. Successful defense of the completed dissertation.

PROGRAMS

At the doctoral level, programs are provided in: (1) Public School Administration, and (2) Educational Administration with an emphasis in Higher Education. The general administration program provides preparation for the superintendent, other central office positions, and college teachers, while the program emphasizing higher education is designed to prepare administrators of higher education.

The doctoral program requires a minimum of eighty-four (84) semester hours beyond the bachelor's degree exclusive of the dissertation and proficiency in statistics. A minimum of thirty-two (32) semester hours must be taken on the Hattiesburg Campus. The student's doctoral committee, appointed by the Graduate Dean, will approve the selection of required courses and electives and in order to secure breadth and depth in the student's preparation program may require more than the minimum number of hours. The student's program shall include a minimum of nine (9) semester hours of graduate credit in cognate areas, preferably in the social sciences. The department defines cognate areas as those courses which broaden and complement the student's program which are outside the areas of professional education.

Each doctoral student will be required to participate in a variety of laboratory and field experiences, many of which may not be connected with specific courses.

DEPARTMENT OF INDUSTRIAL AND VOCATIONAL EDUCATION

The Department of Industrial and Vocational Education offers programs leading to the Master of Science degree in Industrial Arts and in Industrial and Vocational Education. The specialist's degree is offered in Industrial and Vocational Education.

MASTER'S PROGRAMS

Admission

Regular:

A minimum grade point average of 2.75 and a combined score of 750 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional:

Departmental action provided the student has a score of 750 or above on the Aptitude Section of the **Graduate Record Examination**, and a grade point average no lower than 2.5 or a grade point average of 2.75 or above if the **Graduate Record Examinations** score is below 750.

Application for Graduation Graduation is based upon:

1. Completion of an approved program of studies consisting of a minimum of thirty (30) semester hours.
2. Satisfactory completion of the comprehensive examination.

Major in Industrial Arts

	Hours
IVE 605, 606, 607, 611	12
REF 601, 607	6

Electives—Twelve (12) semester hours. Subject to the approval of the department chairman, elective courses are to be taken as follows:

1. Three (3) semester hours must be taken in Industrial and Vocational Education.
2. The remaining nine (9) semester hours may be taken in related areas.

Major in Industrial and Vocational Education

	Hours
IVE 605, 607, 611	9
IVE 692*	3
REF 601, 607	6

Electives—Twelve (12) semester hours. Subject to the approval of the department chairman, elective courses are to be taken as follows:

1. Three (3) semester hours must be taken in Industrial and Vocational Education.
2. The remaining nine (9) semester hours may be taken in related areas.

*Advanced individualized project development in the area of the student's skill specialty. Shop or laboratory experience is required.

SPECIALIST'S DEGREE

Admission

Regular:

A minimum grade point average of 3.25 on previous graduate work and a combined score of 800 on the Aptitude Section of the **Graduate Record Examinations**.

Conditional:

Departmental action provided the student has a score of 800 on the Aptitude Section of the **Graduate Record Examinations** and a grade point average no lower than 2.75 or a grade point average of 3.25 or above if the **Graduate Record Examinations** score is below 800.

Application for Graduation

1. Completion of an approved program of studies as determined by the department chairman and which may consist of more than the minimum thirty-three (33) semester hours of credit required for graduation.
2. Satisfactory completion of the comprehensive examination.
3. Successful defense of the research project.

Major in Industrial and Vocational Education

	Hours
IVE 701, 702, 703, 704	12
CPY 714, or EPY 740	3
REF 602	3
IVE 794	3

*REF 601 required prerequisite

In addition to the above twenty-one (21) hour core, a minimum of four (4) elective courses for twelve (12) semester hours is required. These courses of study may be

selected from the content area of interest, goal-related interest, or other cognitive areas with the approval of the department chairman.

DEPARTMENT OF PSYCHOLOGY

The department offers the Master of Arts, the Master of Science, and the Doctor of Philosophy degrees. The general requirements for master's and doctoral degrees are listed elsewhere in this **Bulletin**.

For regular admission to graduate study in Psychology, a student must: (1) have completed undergraduate foundation courses in statistics and experimental psychology as well as courses in physiological psychology, psychological measurement, psychology of learning, psychology of personality and the history of psychology; (2) have a **B** average or better in his undergraduate major; and (3) have a minimum total score (quantitative plus verbal) of 1,000 on the Aptitude Section of the **Graduate Record Examinations**. Students who are unable to meet these requirements will be considered for conditional admission to the program. Students seeking admission to graduate study at the post-master's level must meet the requirements for regular or conditional admission listed under Types of Admission to Advanced Graduate Study. In addition, the student may be required to come to the campus for a personal interview as a part of the application procedure for advanced standing.

MASTER'S PROGRAMS

The Master of Arts Degree in Psychology

This degree program is planned to prepare students for advanced graduate work, to teach in a junior or senior college, or to work in certain research settings.

Requirements for the Master of Arts Degree

	Hours
Departmental Courses:	
PSY 694, 721, 724, 735, 755, 762, 763, 698	25
EPY 720, 721	6
Electives (All elective courses must be approved by student's major adviser.)	9
Foreign Language	See proficiency requirement listed elsewhere in the Bulletin .

The Master of Science Degree in Psychology

This degree stems from a professional-training, terminal program designed to prepare students for master's level employment in applied settings. Students may choose from two emphasis areas: (1) school psychology, or (2) mental health psychology. The program normally requires two years to complete. Neither a thesis nor a foreign language is required.

Common Requirements for Master of Science Degree

	Hours
Departmental Courses:	
PSY 694, 721, 735, 763, 787, 788.	16

Requirements for an Emphasis in School Psychology

In addition to the requirements listed under Common Requirements for a Master of Science degree, the student must complete the following:

Departmental Courses:	Hours
EPY 774 and 775	6
EPY 740 or 746, 772, 783 (3 hours) 784 (6 hours)	15

Non-departmental Courses:	
SPE 709	3
REF 607 or 709	3

Each student will work out with his adviser any additional course work necessary for certification in the state in which the student plans to work.

Requirements for an Emphasis in Mental Health

In addition to the requirements listed under Common Requirements for a Master of Science Degree, the student must complete the following:

Departmental Courses:	Hours
PSY 733 (6 hours), 734, 736, 755, 782	18
Electives: (All electives taken by the student must be approved by the student's major adviser.)	6

THE DOCTOR OF PHILOSOPHY DEGREE

Students working on a Doctor of Philosophy degree in Psychology may work in any one of the following emphasis areas: (1) general experimental psychology; (2) clinical psychology; (3) developmental psychology; or (4) school psychology. Students admitted for work in any of the areas of emphasis must have completed a master's degree with course work equivalent to that listed under Requirements for the Master of Arts degree. All students interested in applying for admission to the program are encouraged to contact the department prior to submitting their applications.

Common Requirements for the Doctoral Degree

Departmental Courses:	Hours
PSY 898	6
Foreign Language Requirement	See proficiency requirement listed elsewhere in the Bulletin .

Doctoral qualifying examination and doctoral comprehensive examination

Requirements for an Emphasis in General Experimental Psychology

In addition to the requirements listed under Common Requirements for the Doctor of Philosophy degree, the student must take the following:

Departmental Courses:	Hours
PSY 722, 723, 725, 728 (9 hours), 764, 768.	24
EPY 712, 751	6
Electives: All electives must be approved by the student's major adviser and/or committee chairman	18

Requirements for an Emphasis in Clinical Psychology

In addition to the requirements listed under Common Requirements for the Doctor of Philosophy degree, the student must take the following:

Departmental Courses:	Hours
PSY 733 (9 hours), 734, 736, 738, 739, 750	
780, 782 (6 hours), 784, 787, 788	42
PSY 796 (Internship—12 hours; hours do not count toward degree)	12

Electives:

All electives must be approved by the student's major adviser and/or committee chairman	12
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Requirements for an Emphasis in Developmental Psychology

In addition to the requirements listed under Common Requirements for the Doctor of Philosophy degree, the student must take the following:

Departmental Courses:	Hours
PSY 722, 778, 779 (6 hours), 788	16
EPY 774, 775, 760	9
PSY 733 (6 hours) or PSY 733 and EPY 712	6

Electives:

All electives must be approved by the student's major adviser and/or committee chairman	21
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Requirements for an Emphasis in School Psychology

In addition to the requirements listed under Common Requirements for the Doctor of Philosophy degree, the student must take the following:

Departmental Courses:	Hours
PSY 734, 738, 778 or 779, 787, 788	15
EPY 732, 760, 772, 783 (3 hours), 784 (6 hours), 796 (8 hours)	26

Electives:

REF 604	3
All other electives must be approved by the student's major adviser and/or committee chairman	9

Each student will work out with his adviser any additional course work necessary for certification in the state in which the student plans to work.

DEPARTMENT OF RESEARCH AND FOUNDATIONS

The Department of Research and Foundations provides supportive services in teacher education. At the graduate level, these services are provided in the areas of Educational Foundations, Educational Media and Technology, and Educational Research. A master's degree and a specialist's degree are offered in Educational Media and Technology. Students may obtain either a specialist's degree or a doctoral minor in the area of Educational Research.

PROGRAMS IN EDUCATIONAL MEDIA AND TECHNOLOGY

Master of Education in Educational Media and Technology

This degree program is designed for those persons who plan to serve as media specialists or other curriculum workers in the public schools, junior colleges, or

other educational agencies. It meets requirements for Mississippi AA certification as library/media specialist.

Admissions requirements for master's programs as found elsewhere in this **Bulletin** will apply. The applicant must present a combined score of 750 or above on the Aptitude Section of the **Graduate Record Examinations** for regular admission.

Curriculum Requirements

The following courses (24 semester hours) are required of students pursuing the master's degree in Educational Media and Technology:

	Hours
REF 601, 604, 607, 619, or LS 516	12
REF 630, 735	6
REF 590 or 743	3
EDA 600 or 620	3

In addition to the above, non-thesis students select two courses (6 semester hours) from the following:

- LS 501, 505, 572, 591
- REF 536, 590, 646, 740, 741, 742, 743
- RTF 577, CIS 708, EDA 713, CIE 728, EPY 740

Specialist's Degree in Educational Media and Technology

This program is intended to prepare individuals for careers as media specialists, curriculum consultants, and library media directors. It satisfies requirements for AAA certification in Mississippi as well as for media specialist certification in many other states. As a sixth year program, the specialist's curriculum presupposes a master's degree in audiovisual media, library science, instructional technology, curriculum and research, teaching or related area, and appropriate work experience.

The specialist's degree program requires regular admittance procedures to the Graduate School, appointment of a graduate adviser, and the filing of an approved program of studies.

In order to be admitted as a regular graduate student in the specialist's program, an applicant must have a grade point average no lower than 3.25 on previous graduate work and a combined score of at least 800 on the Aptitude Section of the **Graduate Record Examinations**.

If an applicant does not meet the above requirements for regular admission, he may be admitted to a specialist's program on a **conditional** basis as outlined elsewhere in this **Bulletin**.

Curriculum Requirements

A minimum of twelve (12) semester hours in advanced professional education is required of all students pursuing the specialist's degree in Educational Media and Technology. Students must also complete at least twelve (12) to fifteen (15) semester hours in Educational Media and Technology. Additional courses may be required to satisfy any deficiencies in the student's academic background and professional training.

Professional Education

Four courses (12 semester hours) will be selected from among the following:*

	Hours
REF 601 or 602	3
CIE 728 or CIS 708	3
EDA 620 or 720 or 713	3
EPY 740 or 746	3

*Appropriate substitution of other graduate education courses may be made with permission of the student's adviser.

Media and Technology

Due to the diverse background of students seeking a specialist's degree in Educational Media and Technology, no set pattern of courses will be required in the media area. However, the courses shown below will serve as a basis for the selection of the curriculum.

Students who desire to write a thesis will complete five of the following courses (15 semester hours). Those students who desire to complete a field problem (REF 798) will complete six of the following (18 semester hours):*

- REF 536, 590, 619, 620, 630, 644, 645, 646, 647, 735,
740, 741, 742, 743
- LS 501, 505, 572, 591, 605, 654
- RTF 577

*Substitution of other graduate library science, media, computer technology, radio, television, and film courses may be made with approval of the student's adviser.

EDUCATIONAL RESEARCH TRAINING

The program in Educational Research offers the student three options:

- 1. A structured minor in educational research at the doctoral level.
- 2. A specialist's degree. (For information see below).
- 3. A choice of a number of advanced research courses as additional course electives in the student's major or minor field.

MINOR

The structured minor in Educational Research at the doctoral level provides for maximum flexibility in meeting the unique needs for research training in the departmental major fields. A total of twelve (12) semester hours plus REF 761 and 762 constitute the minimum requirements.

The required courses should be viewed as a minimum basis for training in educational research and are designed to prepare the student for more advanced study. Additional advanced courses offered in educational research are recommended for qualified students. Students desiring emphasis in psychology may substitute equivalent statistics and design courses offered in the Psychology Department. Such substitutions must be approved by both departments. It is recommended that REF 601, 602 and 632 be completed before beginning this sequence. A grade point average of 3.0 in REF 761 and 762 is required in order to continue in the program.

Curriculum Requirements

The following courses (18 semester hours) are required of students seeking a doctoral minor in Educational Research.

	Hours
CSS 541 or REF 712	3
REF 761, 762, 824, 830, 893	15

Suggested Educational Research Electives

- CSS 541
- REF 712, 718, 794, I, II, III, 810, 791

Specialist's Degree in Educational Research

The specialist's degree is designed to provide advanced training in educational research and will serve three major purposes: (1) a terminal program at the

specialist's level for individuals not pursuing the doctoral degree; (2) an advanced research training program for individuals desiring specialization in research in addition to their major areas at the doctoral level; and (3) a variety of electives to meet special needs of individuals who are not seeking specialization in educational research.

Students desiring emphasis in psychology orientation may substitute equivalent statistics and design courses offered in the area of psychology. Such substitutions must be approved by both departments.

Admission to the specialist's degree program is contingent upon the student's meeting the general admission requirements of the Graduate School and scoring a minimum of 800 on the Aptitude Section of the **Graduate Record Examinations**.

It is recommended that REF 601, 602, and 632 be completed before starting the sequence below. A grade point average of 3.0 in REF 761 and 762 is required in order to continue in the program.

Curriculum Requirements

The following eight courses (24 semester hours) are required of students pursuing a specialist's degree in Educational Research:

REF 712, 720, 761, 762, 810, 824, 830, 893

Students who desire to write a thesis, for which six semester hours are awarded, will complete three semester hours from among the courses listed below. Those students who wish to complete a field problem (REF 798), for which three semester hours are awarded, will complete six semester hours from among the courses listed below:

CSS 541

REF 718, 791, 792, I, II, III

DEPARTMENT OF SCIENCE EDUCATION

(See page 131.)

DEPARTMENT OF SPECIAL EDUCATION

The Department of Special Education offers graduate programs leading to the master's (MEd), specialist's (EdS), and the doctoral (EdD, PhD) degree. AAA certification is based upon eligibility to the specialist's degree program and a candidate must be eligible for a AA certificate in Special Education. Non-majors and experienced teachers may take work leading toward certification, enrichment, or competency in areas of interest.

MASTER'S PROGRAM

The master's degree program offers several options to the student. This program is open to non-special education majors. The candidate may specialize in a specific area or may elect to combine general special education areas. Programs may be developed in the following: general special education, administration, psychometrics, retardation, early childhood handicapped education, specific learning disabilities, emotionally disturbed, visually impaired, physically handicapped, or gifted and talented education.

In general, each program will include six (6) semester hours in Educational Research and Foundations (REF 601, 607) and cognate hours in addition to major area course requirements to total 30 semester hours. Specified Special Education required courses in major areas are:

Hours

Mental Retardation—SPE 740, 741, 743, 501, 709	15
Specific Learning Disabilities—SPE 530, 730, 731, 709	12
Visually Impaired—SPE 520, 521, 522, 523, 524, 525, 709	21
Physically Handicapped—SPE 527, 528, 529, 709	12
Emotionally Disturbed—SPE 750, 751, 752, 709	12
Gifted—SPE 565, 761, 762, 764, 709	15

SPECIALIST'S PROGRAM

The specialist's degree is granted upon completion of a specifically planned program of study leading to competency in an area of Special Education. The purpose of this program is to train highly qualified personnel in the education of exceptional children and adults. The student will specialize in either administration, psychometrics, or curricula. The program consists of a minimum of thirty-three (33) semester hours in a planned sequence to include the major area, cognates, research, and practicum. A field study (SPE-794) is required. For AAA endorsement only, the student must qualify for the specialist's program.

DOCTORAL PROGRAM

The doctoral program is comprehensive and places emphasis on teacher education, administration, research, and community services. (An internship is required in at least one of the above.) The candidate is expected to develop competency in each of the above areas; and the program will be based upon these as well as experience, background, and information gathered from written and oral qualifying examinations.

Required courses include:

Teacher Education	SPE 801, 880
Administration	SPE 770, 794
Research	SPE 709, 791
Community Service	SPE 792, 802

In addition, each candidate will be expected to include a minimum of six (6) semester hours with a department outside of Special Education.

All graduate degree candidates must conform to the entrance and academic requirements listed in this **Bulletin** as indicated by the University and the Graduate School. In addition to the general requirements for admission to the Graduate School, to be admitted on a regular basis to the department, the candidate must earn a minimum score on the combined Aptitude Section of the GRE of 750 for the master's, 800 for the specialist's, and 850 for the doctoral degree. Conditional basis is viewed by individual records according to recommendations, experience, and academic records. Details of special education programs may be secured from the Department of Special Education, Southern Station, Box 5115.

COLLEGE OF FINE ARTS

Graduate Degrees

1980-1981

Department	Major	Emphasis	Degree
Master's Level			
Art	Art Education		Master of Art Education
	Drawing and Painting		Master of Fine Arts
Music	Music		Master of Music
		Applied Music	
		Church Music	
		Conducting	
Theatre		Music History and Literature	
		Theory and Composition	
	Music Education		Master of Music Education
	Theatre		Master of Arts Master of Fine Arts
		Acting	
		Dance	
		Directing	
		Scenic and Lighting Design	
		Costume Design	
		Technical Production	
Specialist's Level			
Music	Music Education		Specialist in Education
		Vocal-Choral Music Education	
		Elementary School Music Education	
		Instrumental Music Education	
Doctor's Level			
Music	Music Education		Doctor of Music Education
			Doctor of Philosophy
	Performance and Pedagogy		Doctor of Musical Arts

COLLEGE OF FINE ARTS

John E. Green, Dean

Jack P. Donovan, Coordinator of Graduate Studies

The College of Fine Arts currently offers graduate degree programs at three levels: master's degree, specialist's degree, and doctoral degree. Descriptions of these programs can be located in the respective departmental sections.

Deficiencies

The College of Fine Arts retains the right to determine deficiencies in the preparation of any graduate student, regardless of the number of course credits accumulated. The College will recommend appropriate means of removing such deficiencies.

Examinations and Performance Evaluations

Some degree programs require entrance examinations and/or performance evaluations. The departmental sections following in this **Bulletin** list general requirements for each degree program. Prospective students should confer with the department chairman for full details. Approval of the graduate faculty in the appropriate department must be granted before a student will be accepted into a graduate degree program in any area of the Fine Arts.

Final comprehensive examinations at or near the completion of the course work are required for all graduate degrees. The type, scope, and dates of the examinations vary, since they are matters of individual departmental policy. Each student pursuing a graduate degree should confer with his major professor and department chairman for full particulars.

DEGREE PROGRAMS

Prescribed curricula for degree programs are listed below. Some provide great latitude and flexibility in arranging individual degree programs. Course selections must be approved by the student's major professor and graduate advisory committee. The approved course of studies for master's and specialist's degree students must be filed with the Coordinator of Graduate Studies prior to the student's second registration. The student's major professor will assist in every way possible, but final responsibility for following all general and departmental regulations lies with the student. Prospective doctoral students must consult with the Coordinator of Graduate Studies prior to initial registration for detailed information about general and departmental regulations.

DEPARTMENT OF ART

Master of Art Education Degree

Undergraduate prerequisites for the Master of Art Education degree in the Department of Art are: (1) completion of a bachelor's degree in art education at the University of Southern Mississippi or an equivalent program, or (2) completion of any degree in the visual arts, or (3) satisfaction of Mississippi Class A teacher certification requirements in art.

Each student must demonstrate a studio proficiency appropriate to previous study by presenting a portfolio for review by the faculty and chairman of the Department of Art. The review will determine recommendations for meeting the nine (9) semester hour block in art education and studio areas. The portfolio should be submitted no later than three weeks prior to the initial registration so that proper

guidance can be given in advising. Portfolios submitted later will be reviewed after the student has been enrolled in ART 600. Deficiencies which are identified may be removed by passing the non-degree credit course ARE 600 and/or ART 600 with a grade no lower than B and/or taking course work for degree credit as prescribed by the student's major professor and graduate advisory committee.

Requirements for a Master of Art Education Degree are as follows:

	Hours		Hours
AA 600	3	REF 601, 607	6
ARE 601, 606, 625, 626	12		

Nine (9) hours of the remaining course work must be selected in art and art education courses (art history, drawing, painting, ceramics, crafts or ARE 698- Thesis). A student choosing to pursue a non-thesis program will normally be required to take six (6) of the nine (9) hours in one discipline. The course work in lieu of the thesis must be approved by the student's major professor and graduate advisory committee.

The required minimum total is thirty (30) semester hours.

Master of Fine Arts Degree

Drawing and Painting

Undergraduate prerequisites for the Master of Fine Arts degree in the Department of Art are: (1) general requirements as stated by the University and College of Fine Arts, (2) successful presentation of portfolio, (3) a baccalaureate fine arts drawing and painting degree or equivalent undergraduate major, or the number of undergraduate hours of appropriate studio work the graduate advisory committee may deem to be sufficient.

Entrance portfolios should be presented six weeks prior to registration. Deficiencies which are identified may be removed by passing the non-degree credit courses ART 600 with a grade no lower than B and/or taking course work as prescribed by the student's major professor and graduate advisory committee.

Requirements for the Master of Fine Arts Degree are as follows:

	Hours		Hours
AA 600	3	ART 601, 602, 603	9
ART History	6	ART 621, 622, 623	9
ART 701, 702, 703	9	ART 721, 722, 723	9
ART 760, 761, 762	3	ART 799	6

ART 799 will be a project of original creative works of high professional standard, together with a written report in which use is made of photographs or drawings or both. The student will be required to present a comprehensive exhibition of his other graduate work. The required minimum total is fifty-four (54) semester hours.

DEPARTMENT OF MUSIC

Entrance Examinations and Auditions

During the first term of residence, each prospective master's degree student must take diagnostic examinations in basic music theory and in general music history and literature. An entrance audition is also required. Deficiencies in basic music theory may be removed by passing the non-degree credit course MUS 620 with a grade no lower than B. Deficiencies in general music history and literature may be removed by passing the non-degree credit course MUS 630 with a grade no lower than B.

Additional work for degree credit in either or both areas may be prescribed by the student's major professor and graduate advisory committee beyond the minimum required in the degree program. Students whose professional goal is either teaching music at the elementary school level or teaching vocal-choral music must demonstrate adequate proficiency in voice and in piano. Qualifying examinations are required for all advanced degrees. Details can be found in this section of the **Bulletin** describing specialist's and doctoral degrees in music.

Entrance auditions are also required for some degrees. These are:

Master of Music in Applied Music
in Church Music
in Conducting

Doctor of Musical Arts in Performance

The Master of Music in Theory and Composition and the Doctor of Musical Arts in Composition require submission of representative scores of the prospective student's compositions.

Ensemble Participation

All graduate students majoring in music or in music education are required to participate in at least one ensemble during each term of residence. Credit hours earned in ensemble work will not be counted toward a graduate degree except as provided for in the Master of Music Education degree program, *q. v.*

MASTER'S DEGREES

There are two master's degrees available in the Department of Music, one with a major in music leading to the Master of Music degree, the other with a major in music education leading to the Master of Music Education degree. Emphasis areas in the Master of Music degree are: Applied Music, Church Music, Conducting, Music History and Literature, and Theory and Composition.

Regular admission procedures governing graduate entrance into the University of Southern Mississippi will be required. Details can be found in another section of this **Bulletin**.

Master of Music Degree

Applied Music

Undergraduate prerequisites: (1) completion of a bachelor's degree in music with a major in applied music at the University of Southern Mississippi or an equivalent program, or (2) completion of any other bachelor's degree in music, provided the auditioning committee is satisfied that the student is qualified both academically and in performance to pursue the Master of Music degree in applied music at the University of Southern Mississippi. A high level of performance proficiency in the major area is expected. Voice majors must demonstrate adequate knowledge of languages and diction to understand and perform the voice repertoire.

Specific areas in which this degree may be earned are:

Bassoon	Organ	Trumpet
Clarinet	Percussion	Tuba
Flute	Piano	Viola
Guitar	Piano Accompanying—	Violin
Horn	Ensemble	
	Saxophone	Violoncello
Oboe	Trombone	Voice

Requirements for the degree: a minimum of eight (8) semester hours in the primary applied music performance area; MUS 715 for three (3) semester hours; a

minimum of three (3) semester hours in literature for the instrument chosen as the primary performing medium; and a minimum of two (2) semester hours in pedagogy of the primary performing instrument. Remaining course work must include at least three (3) semester hours in music history and literature, a minimum of three (3) semester hours in music theory beyond the undergraduate requirements and may include graduate study in appropriate related fields. The total minimum requirement is thirty-two (32) semester hours.

Students who wish to earn the Master of Music degree in Piano Accompanying follow a more structured course of studies. Requirements are: eight (8) semester hours of APM piano; accompany at least four (4) full recitals, including at least one involving piano and two or more instruments; four (4) semester hours of vocal literature and voice pedagogy; MUS 539—6 semester hours (French, German and Italian); four (4) semester hours in music history and literature, including either MUS 531 or MUS 551; four (4) semester hours of music theory; and the remainder of the course work in approved electives.

Master of Music Degree

Church Music

Undergraduate prerequisite: completion of a bachelor's degree with a major in church music from the University of Southern Mississippi or an equivalent program.

Requirements for a major: the program must include MUS 559, three (3) semester hours; MUS 760, three (3) semester hours; MUS 715, one (1) semester hour; and seven (7) semester hours in the major performance area (organ, voice, or graduate conducting). Remaining course work must include a minimum of six (6) semester hours in music theory, and six (6) semester hours in music history and literature. The total minimum requirement is thirty-two (32) semester hours.

Master of Music Degree

Conducting

Undergraduate prerequisite: completion of a bachelor's degree in music or in music education from the University of Southern Mississippi or an equivalent program.

For entry into this degree program, applicants must demonstrate (1) advanced conducting competency by directing an audition-rehearsal with one of the University's major performing ensembles, (2) above average knowledge and ability in all facets of undergraduate music theory (written and aural traditional harmony, modern harmony, counterpoint, form analysis, and orchestration) by passing an entrance examination covering all areas, (3) practical knowledge of performing techniques on all instruments including voice, and (4) sufficient ability at the piano to play simple scores. Minimal deficiencies in one of the four entrance criteria will be permitted. In such a case, the prospective student may be admitted to the degree program on a conditional basis, but will be required to pursue undergraduate remedial work in the deficient area before being allowed to proceed into advanced level studies. An applicant must have experience as a member of one or more performing organizations and at least one year of conducting experience.

Requirements for the degree: a minimum of nine (9) semester hours of graduate conducting including MED 731 and 732, and advanced individual study with the conductor(s) of the University's major performing ensembles: MUS 721 or 722; 723; MUS 731 and 732; MUS 552 or MUS 548; and MUS 549 or MUS 550; at least three (3) semester hours in music history-literature; applied music study; and at least three (3) semester hours of MUS 692 in scoring and arranging. Proficiency in one or more languages is recommended. Candidates are expected to prepare and conduct at least

one full-length concert with a major performing organization. The total minimum requirement is thirty-two (32) semester hours.

Master of Music Degree

Music History and Literature

Undergraduate prerequisite: completion of bachelor's degree in music with a major in music history and literature at the University of Southern Mississippi or an equivalent program. Applicants must demonstrate reading ability in at least one foreign language, preferably German or French.

Requirements: a minimum of nine (9) hours selected from MUS 533, 534, 535, 536, 537; six (6) hours selected from MUS 731, 732, 761, 762; a minimum of three (3) hours in Analytical Techniques or other appropriate music theory courses; a minimum of eight (8) hours selected from MUS 531, 532, 540, 541, 542, 543, 546, 547, 548, 549, 550, 551, 559; 702 and 698. Special Problems (MUS 692) may be taken for credit in preparation for the thesis. REF 601 may be required by the student's major professor and graduate advisory committee. Participation in the *Collegium Musicum* will be required for a minimum of two (2) terms by all students seeking this degree. The total minimum requirement is thirty-two (32) semester hours.

Master of Music Degree

Theory and Composition

Undergraduate prerequisite: completion of a bachelor's degree with a major in music theory and composition at the University of Southern Mississippi or an equivalent program which must have included counterpoint, orchestration, original composition, performance study throughout the program, and practical command of the piano.

Requirements: a minimum of six (6) semester hours in advanced composition (APM 691, 692, 693, 694), MUS 714 or 698, 711, 721, 722, and three (3) semester hours in applied music study. The remaining course work must include a minimum of six (6) semester hours in music history and literature. The total minimum requirement is thirty-two (32) semester hours.

Master of Music Education Degree

Undergraduate prerequisite: completion of an undergraduate degree in teacher education which conforms to NASM requirements.

	Hours		Hours
MED 725	3	REF 601, 607	6
At least one course chosen from:		At least one course chosen from:	
MUS 711, 721, 722, 723	3	MUS 531, 533, 534, 535, 536, 537, 550, 551, 731, 732, 761, 726	3

The remainder of the course work must be selected so that each of the following requirements has been met: (1) applied music studio study—2 hours; (2) performing ensemble(s)—2 hours; (3) electives selected from studio study, conducting, music theory and analysis, or music history-literature; and (4) at least twelve (12) semester hours of the total program must be in music education and music education related courses. The total minimum requirement is thirty (30) semester hours.

SPECIALIST'S DEGREE

Specialist's Degree in Music Education

Graduate courses are offered leading to the specialist's degree in music education with specialization in vocal-choral music education, instrumental music education,

or in elementary school music education. General requirements for the degree are found in another part of this **Bulletin**. The degree program satisfies AAA certification for the State of Mississippi, provided the student chooses to do his specialization studies for the degree in the area of his teacher's certificate endorsement. As a sixth year program the specialist's degree presupposes a master's degree in music or music education. The degree program requires regular admission procedures, entrance examinations and auditions during the first full term of residence, appointment of a graduate advisory committee, and completion of an approved course of studies designed jointly by the student, his major professor, and his graduate advisory committee. The approved course of studies must be filed with the Coordinator of Graduate Studies prior to the student's second registration for courses.

The specialist's degree requires completion of the approved program of studies containing at least thirty (30) semester hours beyond the master's degree. A minimum of fifteen (15) semester hours of the course work must be chosen in music education in addition to and beyond such studies in the previously earned master's degree. The remaining course work must be selected so that each of the following areas is included: (1) music history and literature, (2) music theory, and (3) applied music. The total program may also include related professional study in a cognate field. MED 798 is required for completion of the degree.

DOCTORAL DEGREES

Doctor of Music Education Degree

Doctor of Philosophy in Music Education Degree

General requirements for the Doctor of Philosophy and Doctor of Music Education (the Doctor of Music Education general requirements are the same as the Doctor of Education degree) are found in another section of this **Bulletin**. The College of Fine Arts further stipulates the following requirements.

Admission: An applicant for admission to doctoral study in music education must possess a master's degree in music education, or its equivalent, from an approved institution. Each applicant must have at least three years of successful teaching experience.

The degree programs require regular admission procedures, auditions during the first term of residence, qualifying examinations no later than the second term, appointment of the major professor and graduate advisory committee, and completion of an approved course of studies designed jointly by the student and his entire graduate advisory committee.

Research Tools: Candidates for the Doctor of Philosophy degree in music education must comply with the language requirements as specified for Doctor of Philosophy candidates in this **Bulletin**. A candidate for the Doctor of Music Education degree is required to demonstrate proficiency in statistics or computer science. At the discretion of the graduate faculty, this candidate may be required to demonstrate a reading knowledge of one modern foreign language.

Degree Requirements

The following courses are required: REF 601 (or equivalent), MUS 702 (or equivalent), and MED 750, 825, 826, and 898—Dissertation. The remaining course work will be determined by the candidate's qualifying examination, his interests, and the counsel of his major professor and graduate advisory committee. In planning this program, the following minimum distribution of graduate courses (including master's degree work) is required: Thirty (30) semester hours in music education, nine (9) semester hours in music history and literature, nine (9) semester

hours in music theory, nine (9) semester hours in professional education, three (3) semester hours in applied music and performance study, and the remainder of the program in approved electives. Although, this **Bulletin** states that seventy-eight (78) semester hours are required for doctoral degrees, it should be clearly understood that some candidates will be unable to receive a degree on the basis of this minimum. The distinction implied by the degree and the traditions related to it require comprehensive knowledge and demonstration of a high degree of proficiency in the major field and related areas of study, as well as the ability to conduct advanced research.

Doctor of Musical Arts Degree

Performance and Pedagogy

Regular admission procedures governing entrance into the University of Southern Mississippi will be required. Details can be found earlier in the **Bulletin**.

Specific areas in which the DMA may be earned are:

Bassoon	Organ	Tuba
Clarinet	Percussion	Viola
Composition	Piano	Violin
Flute	Saxophone	Violoncello
Horn	Trombone	Voice
Oboe	Trumpet	

All Areas Except Composition

Acceptance of a prospective student into the DMA program assumes (1) a previously earned master's degree in performance from the University of Southern Mississippi or an equivalent degree from another approved institution, or (2) a previously earned master's degree with any other major, provided the auditioning and examinations committees are satisfied that the student is qualified both in performance and in academic areas to pursue the DMA at the University of Southern Mississippi. A high level of performance proficiency and extensive knowledge of repertoire are expected.

Students entering the DMA program will be required to present an audition. Additionally, the student will be required to take written and/or oral qualifying examinations before completing the second term of enrollment.

The DMA student will be required to take MUS 702, 731, 732, and 898. The remainder of the course work will be determined in light of the student's qualifying examination, entrance audition, his interests and/or professional goals, and the counsel of his major professor and graduate advisory committee. In planning this program, the following minimum distribution of graduate courses (including master's degree work) is required: Thirty (30) semester hours in applied music and recitals, fifteen (15) semester hours in music history and literature, nine (9) semester hours in music theory, six (6) semester hours in a cognate field of study, and the remainder of the program in approved electives. Three recitals will be required in addition to the entrance audition. One must be a solo recital, one a lecture recital, and the third chosen from the following options: (a) performance of a concerto with orchestra, (b) performance of a major role in an opera, (c) performance of a major role in an oratorio, (d) a full-length recital of chamber music, or (e) a second solo recital. As a general rule, not more than one doctoral recital may be presented by a candidate during any academic term, nor more than two during any nine-month period. Rare exceptions will be permitted, but under rigidly controlled procedures. See the Coordinator of Graduate Studies for details.

One language will be required in the degree. Others may be required by the major professor and graduate advisory committee.

The DMA dissertation, required for completion of the degree, consists of two parts. Part I must include all recital programs, concert programs, program notes, and lectures presented during the student's residency. Part II must be a written thesis giving evidence of the candidate's ability to make a scholarly investigation of a limited scope.

Composition Area

Acceptance of a prospective student into the DMA program in the composition area assumes a previously earned master's degree in composition or the equivalent, provided the composition faculty and examinations committee are satisfied that the student is qualified to pursue the DMA at the University of Southern Mississippi. A high level of proficiency in composition and extensive knowledge of literature are expected.

Students applying for entrance into the DMA program in the composition area must submit representative scores and/or recordings of their compositions prior to the first term of enrollment at the University of Southern Mississippi. Additionally, the student will be required to take written and/or oral qualifying examinations before completing the second term of enrollment.

The DMA student will be required to take MUS 702, 731, 732, and 898. The remainder of the program will be determined in light of the student's entrance evaluation, his qualifying examination, his interests and/or professional goals, and the counsel of his major professor and graduate advisory committee. In planning this program, the following minimum distribution of graduate courses (including master's degree work) is required: Thirty-nine (39) semester hours in composition and theory, fifteen (15) semester hours in music history and literature, six (6) semester hours in a related field of study, and the remainder of the program in approved electives. The student will write compositions totaling at least two (2) hours playing time. Previously written compositions lasting up to thirty (30) minutes may be accepted as part of these two hours. Compositions will be for orchestra, band, mixed chorus, solo, and ensemble music demonstrating competence in writing for all orchestral and band instruments and the solo voice. At least one work should include synthesized sound. The music should encompass levels of difficulty from junior high school to professional standards. The composer will write commentaries for each work, including program notes and rehearsal suggestions. All works, including parts, must be in duplicative format.

One recital of the composer's works will be given, with the composer commenting on each composition.

One language will be required, chosen from French, German, or Italian.

The DMA dissertation, required for completion of the degree, will consist of the commentaries, program notes, rehearsal suggestions, individual parts and the full scores of all works composed during the student's graduate study.

DEPARTMENT OF THEATRE ARTS

The Department of Theatre Arts offers programs leading to the Master of Arts and the Master of Fine Arts degrees.

To be eligible for admission, a student must have completed a minimum of twenty-one (21) semester hours of undergraduate course work in theatre or theatre related areas. Those who do not meet the minimum entrance requirements may be admitted but will be expected to take undergraduate courses to cover deficiencies. It

should be emphasized that admission to the Graduate School does not imply acceptance of the student as a candidate for a graduate degree. (See general admission requirements and procedures as set forth in this **Bulletin**.)

Upon being admitted into a graduate program, the student will be assisted by the department chairman in selecting an appropriate graduate advisory committee composed of three faculty members, one of which will serve as major professor.

Master of Arts Degree in Theatre

A written diagnostic examination administered during the first semester of residence is required of all students entering a Master of Arts program. The successful completion of a total of thirty-two (32) semester hours which include a thesis and its oral defense are required for this degree. Eight (8) of the required thirty-two (32) hours may be chosen from graduate courses in a related field. The student's major professor will assist him in planning the appropriate program of courses.

Master of Fine Arts Degree in Theatre

The objective of the Master of Fine Arts curriculum is to develop the educated performer by offering sound theory and intensive practical training simultaneously. Students in the Master of Fine Arts programs will elect a plan of study with specialization(s) in one or two of the following areas: acting, directing, scenic and lighting design, costume design, technical production, and dance.

For admission to the Master of Fine Arts degree program, a demonstration of performance abilities and strong letters of recommendation will be required. Directing and acting students will be required to demonstrate their proficiency in "Showcase" performance during the first semester in residence. Design emphasis students must present a portfolio for review by the faculty prior to the initial registration. If no portfolio is available, a student may be admitted on a conditional basis until an acceptable minimum proficiency is determined. Dance emphasis students must demonstrate technical and choreographic skills by audition or by submission of a video tape recording of their performance. In addition, they shall have completed a minimum of eighteen (18) semester hours of undergraduate course work in dance.

The satisfactory completion of a minimum approved program of fifty-four (54) semester hours is required for the Master of Fine Arts degree. For the dance emphasis student, forty (40) hours of the fifty-four (54) must be in dance. The dance emphasis student must participate in a third or fourth level dance technique class each semester of enrollment. Candidates will be required to pass an oral comprehensive examination covering the area of specialization. The candidate will satisfactorily complete a creative project in his major area of emphasis and defend it orally before the Theatre Arts faculty.

**SCHOOL OF HEALTH,
PHYSICAL EDUCATION,
AND RECREATION**

**Graduate Degrees
1980-1981**

Department	Major	Degree
Master's Level		
Health and Safety Education	Health Education	Master of Science
Physical Education	Physical Education	Master of Science
Recreation	Recreation	Master of Science
Specialist's Level		
Physical Education	Physical Education	Specialist in Education
Doctor's Level		
Physical Education	Health, Physical Education, and Recreation	Doctor of Education Doctor of Philosophy

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Walter E. Cooper, Dean
Billy B. Slay, Graduate Coordinator

The School of Health, Physical Education, and Recreation offers the Master of Science, the Specialist's, the Doctor of Education, and the Doctor of Philosophy degrees. Program development is oriented toward supply and demand in the professional job market and flexibility of program requirements allows for individual career interests in planning. Competency-based instruction is rapidly becoming a reality.

The Master of Science degree is offered in the Department of Health and Safety Education, the Department of Physical Education, and the Department of Recreation. Admission to any one of these programs requires an acceptable score on the **Graduate Record Examinations**, an acceptable GPA at the baccalaureate level, and a minimum of an undergraduate minor (or its equivalent) in an appropriate* field of study.

The specialist's degree is in physical education only with a requirements of a minimum of at least thirty (30) semester hours beyond the master's degree. Consideration for admission into the program will be based upon the **Graduate Record Examinations** scores, previous academic achievement, and professional achievement.

The Doctor of Education and Doctor of Philosophy degree require a minimum of forty-eight (48) semester hours beyond the master's degree or seventy-eight (78) semester hours beyond the baccalaureate degree, excluding the dissertation. Consideration for admission will be based upon the following criteria:

- A. **Graduate Record Examinations** scores
- B. Previous academic achievement
- C. Professional achievements
- D. A personal interview before a representative committee of the School of Health, Physical Education, and Recreation graduate faculty.

All general Graduate School requirements, outlined earlier in this catalog, must be satisfied for students to progress successfully toward degrees.

*Specific competencies for admission are determined by each department.

DEPARTMENT OF HEALTH AND SAFETY EDUCATION

The Department of Health and Safety Education offers the following emphasis areas within the health education major which leads to a Master of Science degree.

HSE EMPHASIS AREA I—Community Health Education

Minimum course work requirement with thesis—39 semester hours

Minimum course work requirement without thesis—42 semester hours

This program of studies is designed to prepare students for professional careers in a variety of community health education programs. Although the preferred undergraduate major for entry into this program is community health education, other undergraduate majors may provide good backgrounds for this study. Students with undergraduate majors other than health education, who wish to pursue these studies, may have their credentials evaluated by the department. In general, limiting

deficiencies in previous studies must be removed prior to being admitted as a regular student.

This program is generally designed for three terms of study, one term being reserved for professional internship in a community health program.

The **minimum** course work requirements with thesis are: HSE 509, 520, 611, 622, 680, 698, 710, 711, 720, and REF 602.

The **minimum** course work requirements without thesis are: HSE 509, 520, 521, 611, 622, 680, 710, 711, 720, REF 602, and six (6) semester hours of electives.

HSE EMPHASIS AREA II—School Health Education

Minimum course work requirement with thesis—32 semester hours

Minimum course work requirement without thesis—35 semester hours

This program of studies is designed to aid students in becoming master teachers in the field of health education. Students who wish to pursue these studies in preparation for teaching careers in public schools should review the teacher certification requirements of the state in which they plan to teach. Those who successfully complete these studies may also find career opportunities in certain colleges and universities.

In order to be admitted to this program of studies, students should be knowledgeable of educational theory and methodology, foundations of health science, and curriculum content in health education. In general, limiting deficiencies in previous studies must be removed prior to being admitted as a regular student.

The **minimum** course work requirements with thesis are: HSE 510, 511, 680, 698, 711, PED 701, 702, REF 602, and six (6) semester hours of electives.

The **minimum** course work requirements without thesis are: HSE 510, 511, 680, 711, PED 701, 702, REF 602, and fifteen (15) semester hours of electives.

HSE EMPHASIS AREA III—Safety and Driver Education

Minimum course work requirement with thesis—30 semester hours

Minimum course work requirement without thesis—33 semester hours

This program of studies is designed to aid students in becoming master teachers in the field of safety and driver education. Students who wish to pursue these studies in preparation for careers in public schools should review the teacher certification requirements of the state in which they plan to teach. Students who successfully complete these studies may also find career opportunities in certain colleges and universities, governmental programs, and private industries and agencies.

The **minimum** course work requirements with thesis are: HSE 680, 698, 711, 740, 741, 742, 743, 744, 745.

The **minimum** course work requirements without thesis are: HSE 680, 711, 740, 741, 742, 743, 744, 745 and nine (9) hours of electives.

DEPARTMENT OF PHYSICAL EDUCATION

The Department of Physical Education offers a variety of graduate programs leading to the master's, specialist's, or doctoral degree. Also available to non-majors and experienced teachers are courses for enrichment and competency development in areas of special interest.

MASTER'S PROGRAM

Course requirements for the Master of Science degree in physical education include 32 semester hours of graduate work plus any undergraduate courses deemed necessary to correct deficiencies in the student's background.

Flexibility of the degree plan affords the student many options based upon in-

dividual needs and interests. The 17 hours common requirement is composed of: PED 701, 702, 704, 705, 723 and 742. With the aid of the major professor a 15 hour individualized concentration is selected. Concentrations currently available include: PED in the elementary school, PED for the atypical, coaching, research, driver education, recreation, health, instructional systems development, and administration.

SPECIALIST'S PROGRAM

The program leading to the specialist's degree has the following course requirements: REF 602, EPY 774 or 775, EDA 704, 710, PED 703, 791. The balance of the 30 semester hours required will be directed electives chosen with the aid of the student's major professor and must include those courses in the Physical Education Master of Science core not previously taken by the candidate.

DOCTORAL PROGRAM

The Doctor of Education and Doctor of Philosophy degrees are in Health, Physical Education, and Recreation with similar concentration options as outlined in the master's program. The minimum course work for each of these degrees is forty-eight (48) semester hours beyond the master's degree or seventy-eight (78) semester hours beyond the bachelor's degree.

In addition to the General Academic Regulations and Requirements of the University, departmental requirements are:

1. Prior to completing 15 semester hours of course work, the department will require a written and oral qualifying examination. This examination is designed to assess both the student's fitness to pursue the degree and to assist the committee in planning the student's program.
2. A written and oral comprehensive examination must be taken at or near the completion of the candidate's course work.
3. Upon the acceptance of the dissertation by the candidate's committee and at least four weeks prior to graduation, a final oral examination in defense of the candidate's dissertation will be administered by the Department of Physical Education and the committee.
4. It is strongly recommended that two years of teaching experience be achieved before the degree is conferred.

DEPARTMENT OF RECREATION

The Department of Recreation offers programs leading to a Master of Science degree with concentration in any one of three areas of specialization. The three program options include:

- (1) Community and Municipal Recreation
- (2) Recreation Planning and Resources Management
- (3) Therapeutic Recreation

Departmental requirements consist of the completion of a minimum of thirty-three (33) semester hours with eighteen (18) hours in courses at or above the 600-level, completion of a recreation core of REC 680, 701, 702, 703, 790, and a thesis or two (2) professional papers which confer six (6) semester hours credit. An oral presentation and defense is required upon completion of thesis or professional papers. During the student's final six (6) hours or last semester of work, he will submit to both a written and oral comprehensive examination.

Students who have earned a baccalaureate degree in a field other than recreation will be required to complete twelve (12) to fifteen (15) semester hours of course work

in pursuit of the master's degree. In addition to course work, a field practicum may be required for students who have not had sufficient experience in their proposed area of study. An information sheet regarding comprehensive examinations and program options is available in the Department of Recreation.

SCHOOL OF HOME ECONOMICS

Graduate Degrees

1980-1981

Department	Major	Emphasis Area	Degree
Master's Level			
Environmental Design	Clothing and Textiles		Master of Science
		Non-Thesis Program	
		Thesis Program	
	Clothing Merchandising		Master of Science
		Non-Thesis Program	
		Thesis Program	
Family Life Services	Child Development		Master of Science
		Non-Thesis Program	
		Thesis Program	
	Family Living		Master of Science
		Non-Thesis Program	
		Thesis Program	
Home Economics Education	Home Economics Education		Master of Science
		Non-Thesis Program	
		Thesis Program	
Institution Administration	Institution Management		Master of Science
		Non-Thesis Program	
		Thesis Program	
Specialist's Level			
Home Economics Education	Home Economics Education		Specialist in Education

SCHOOL OF HOME ECONOMICS

Sarah W. Gibbs, Dean

The Master of Science degree is offered in the Departments of Environmental Design, Family Life Services, Home Economics Education, and Institution Administration. The general requirements for the Master of Science degree are listed in the front of the **Bulletin**. The specialist's degree is offered in the Department of Home Economics Education. For detailed information concerning a specific degree program, please refer to that department in the following pages.

DEPARTMENT OF ENVIRONMENTAL DESIGN

The Department of Environmental Design offers a Master of Science degree in two areas of specialization. These are clothing merchandising and clothing and textiles. Admission to these programs requires a GRE score of 750. A thesis or non-thesis option may be selected. Both degree options require a minimum of thirty (30) semester hours. The thesis option is recommended for those individuals who plan to continue their education beyond the master's degree. Graduate work in both areas of specialization must be preceded by undergraduate work in the chosen area. Background deficiencies may be strengthened by auditing recommended undergraduate courses.

The Thesis Option requires:

- REF 601 (3 hours)
- CT 698 (6 hours)
- Other CT courses (18 hours)
- Electives (3 hours)

The Non-Thesis Option requires:

- CT courses (18 hours)
- Approved Minor (12 hours).

After satisfactory completion of the course work, the student will take a comprehensive examination.

DEPARTMENT OF FAMILY LIFE SERVICES

The Department of Family Life Services offers programs leading to a Master of Science degree with majors in child development and in family living. Admission to these programs requires a minimum GRE score of 750.

Graduate work in the major and minor fields of specialization must be preceded by course work sufficient to satisfy undergraduate requirements or enough related work to indicate the student's ability to do graduate work in his major and minor fields. Deficiencies in the student's background may be made up by auditing recommended undergraduate courses.

Requirements for the Master of Science degree include a minimum of thirty (30) semester hours credit with two options: a thesis or non-thesis plan.

The Thesis Emphasis requires:

- REF 601 (3 hours)
- CD 698 or MFL 698 (6 hours)
- Major Field (9 hours)
- Minor Field (12 hours)

The Non-Thesis Emphasis requires:

Major Field (18 hours)

Minor Field (12 hours).

Students who intend to pursue a doctoral degree are encouraged to write a thesis.

Upon completion of the graduate program, a comprehensive examination covering major and minor fields will be required.

DEPARTMENT OF HOME ECONOMICS EDUCATION

The Department of Home Economics Education offers the Master of Science degree and the Specialist in Education degree. These programs are designed primarily for teachers and extension home economists. Admission to the program requires a minimum GRE score of 750 for the master's program and 800 for the specialist's program.

Master's Degree

A minimum of thirty (30) semester hours of course work is required. Students have an option of a thesis or non-thesis plan.

The Thesis Emphasis requires:

REF 601 (3 hours)

HEE 698 (6 hours)

Other HEE courses (9 hours)

Electives (12 hours).

These elective hours may be chosen from various areas by permission of the major professor.

The Non-Thesis Emphasis requires:

HEE courses (12 hours)

REF 601 (3 hours)

Electives (15 hours).

These elective hours may be chosen from various areas by permission of the major professor.

Upon completion of the graduate program, a comprehensive examination will be required.

Specialist's Degree

This program offers the sixth year of study in home economics education and satisfies the requirements for the AAA certificate in Mississippi. The curriculum for the specialist's degree is purposely designed to be flexible so that candidates may choose courses of greatest need. In addition to the general University requirements for admission to graduate study at the specialist's level, a GRE minimum score of 800 on the Aptitude Section is required.

The specialist's degree requires the completion of at least thirty-three (33) semester hours beyond the master's degree. A minimum of nine (9) hours of Home Economics Education, REF 601, and a research problem (6 semester hours) are required. The remaining fifteen (15) hours may be chosen from home economics subject matter courses. Other courses may be selected with permission of the major professor.

DEPARTMENT OF INSTITUTION ADMINISTRATION

The Department of Institution Administration offers the Master of Science degree in Institution Management. Admission to the program requires a minimum GRE score of 750. A minimum of thirty (30) semester hours is required. Eighteen (18) hours must be in courses numbered 600 and above. The candidate has the option of a thesis or non-thesis plan.

The Thesis Emphasis requires:

REF 601 (3 hours)

IAD 698 (6 hours)

Other IAD courses (12 hours)

Minor Field (9 hours).

The Non-Thesis Emphasis requires:

Major Field (18 hours)

Minor Field (12 hours).

A comprehensive examination is required for both options.

COLLEGE OF LIBERAL ARTS

Graduate Degrees 1980-1981

Department/Division	Major	Degree
Speech Communication (in conjunction with Journalism and Radio, Television, & Film)	Communication	Master of Arts Master of Science Master of Philosophy Doctor of Philosophy
Criminal Justice	Criminal Justice	Master of Arts Master of Science
English	English	Master of Arts Master of Science Specialist in English Doctor of Philosophy
Foreign Languages	Comparative Literature	Master of Arts Master of Philosophy
	French	Master of Arts Master of Science
	German	Master of Arts Master of Science
	Spanish	Master of Arts Master of Science
Geography and Area Development	Economic Development	Master of Science
	Economics	Master of Arts
	Geography	Master of Arts Master of Science
History	History	Master of Arts Master of Science Master of Philosophy Doctor of Philosophy

	Latin American Studies	Master of Arts Master of Science
Philosophy and Religion	Philosophy	Master of Arts
Political Science	Political Science	Master of Arts Master of Science Master of Philosophy Doctor of Philosophy
Sociology and Anthropology	Anthropology	Master of Arts Master of Science Master of Arts
Speech and Hearing Sciences	Sociology	
	Speech and Hearing Sciences	Master of Arts Master of Science Doctor of Philosophy

COLLEGE OF LIBERAL ARTS

James H. Sims, Dean
Glenn T. Harper, Assistant Dean

The College of Liberal Arts offers the Doctor of Philosophy, the Master of Philosophy, the Master of Arts, and the Master of Science degrees as outlined on the previous pages. Please check the pages and each department for specialized fields.

With the approval of the major professor and the chairman of the major department, the student may choose a graduate minor in a cognate field, subject to the approval of the major professor and the chairman of the major department.

Various departments of the College of Liberal Arts also participate with the College of Education and Psychology in programs leading to the Master of Education degree.

Since the master's degree in social studies is normally intended for teachers, students interested in this degree should consult the Dean of the College of Liberal Arts and the Dean of the College of Education and Psychology, who will jointly arrange suitable degree programs with the appropriate chairmen.

For general academic requirements and regulations governing each of these degree programs, see section on **Academic Requirements**. For **specific** degree requirements, consult the appropriate department.

DIVISION OF SPEECH COMMUNICATION

The interdisciplinary graduate program in Communication offers the Master of Arts, Master of Science, Master of Philosophy, and the Doctor of Philosophy degrees under the joint administration of the participating areas within the Department of Journalism; the Department of Radio, Television, and Film; and the Department of Speech Communication. The coordinator advises all candidates regarding general regulations and requirements, serves as academic adviser until committees are formed and major professors are selected, and is responsible generally for the routine administration of the academic policies established by the executive committee comprised of the participating department.

Master's and doctoral degree candidates select an area of emphasis and curriculum from among the participating disciplines with the approval of the major professor, committee members, and the appropriate department chairman. Note the available graduate courses listed separately under journalism; radio, television, and film; and speech communication, as well as the communication course descriptions.

Master's degree candidates select either of two major concentrations: (1) speech communication, or (2) mass communication, emphasizing either public relations or radio, television, and film. Students emphasizing mass communications are required to have prior academic training or professional experience in the mass media. Those not meeting the requirement can be admitted to candidacy but will be required to correct the deficiency without receiving graduate credit for the additional work.

The Doctor of Philosophy degree program is broad and interdisciplinary, requiring the study of the advanced theories of interpersonal, organizational, and mass communication and the study of communication research design, and methodology.

Specific requirements of the various degree plans are stated below:

General

COM 720, "Introduction to Graduate Research in Communication," or an equivalent course taken at another university is required of all communication graduate students.

Master of Arts

A minimum of thirty-six (36) semester hours must be completed, including thesis credit. At least twenty-two (22) of these hours must be numbered 600 and above. The candidate must demonstrate proficiency in a foreign language and submit a scholarly thesis.

Master of Science

Either a thesis or non-thesis plan can be elected, subject to the approval of the major professor and appropriate department chairman. As a matter of policy, students intending to pursue a higher degree elect the thesis plan. Competency in a foreign language is not required. Both plans require a minimum of thirty-six (36) hours of credit, including at least twenty-two (22) hours numbered 600 and above.

Candidates electing the non-thesis or thesis plan can be required, at the option of the major professor and appropriate department chairman, to complete three (3) hours of graduate-level statistics which will not be applied toward the thirty-six (36) hour requirement.

Candidates following the thesis plan take a comprehensive oral examination in the area of emphasis and defend the thesis. Students following the non-thesis plan take a comprehensive written examination and may be required to take an oral examination in the area of emphasis.

Master of Philosophy

The Master of Philosophy degree offered in Communication is intended primarily for a teaching career in high schools and college. It is taken after earning a master's degree or its equivalent in Communication. The general academic requirements for the Master of Philosophy degree are stated elsewhere in this **Bulletin**. The Master of Philosophy degree program in Communication follows these requirements.

Doctor of Philosophy

The minimum credit requirement for the doctoral degree is forty-eight (48) hours beyond the master's or seventy-eight (78) hours beyond the baccalaureate degree. The candidate takes rigorous written and oral comprehensive examinations and submits and defends a scholarly dissertation pertaining to the area he elects to emphasize (see section on General Requirements and Regulations).

Doctoral candidates must elect an outside minor consisting of twelve (12) hours approved by the major professor, committee members, and the appropriate department chairman. Doctoral candidates must demonstrate proficiency in basic communication research design and methodology, as well as competency in basic statistics.

SEE COURSE LISTINGS UNDER COMMUNICATION, page 160.

DEPARTMENT OF CRIMINAL JUSTICE

The Department of Criminal Justice offers courses leading to a Master of Arts degree, a Master of Science degree, and graduate emphasis in the master's and doctoral degree programs of other departments.

MASTER'S PROGRAMS

Master of Arts Degree

The Master of Arts degree in Criminal Justice consists of twenty-four (24) hours of criminal justice course work, nine (9) hours of course work in an approved minor area, plus six (6) hours of CJ 698, Thesis. The Master of Arts degree program is

divided into the subfields noted below. CJ 525 and 625 are required in all subfields. A student will be required normally to select a minimum of four courses from a subfield concentration and a minimum of one course from each of two other subfields in order to gain an appreciation of the interaction of criminal justice system components.

Master of Science Degree

The Master of Science degree in Criminal Justice consists of a minimum of thirty (30) hours of criminal justice course work, a minimum of nine (9) hours of course work in an approved minor area, plus successful completion of a written comprehensive examination. The degree is designed to provide specialization in a designated field to meet professional needs.

General Requirements

A 3.0 grade point average must be maintained in course work in Criminal Justice as well as a 3.0 grade point average overall.

Criminal Justice Fields

I. Administration of Justice

CJ 530	CJ 640
CJ 525	CJ 660
CJ 560	CJ 632
	CJ 633

II. Correctional Administration

CJ 550	CJ 650
CJ 551	CJ 561
CJ 552	CJ 525

III. Approaches to Problems and Research in Criminal Justice.

CJ 580	CJ 625
CJ 571	CJ 640
CJ 525	CJ 660

(Other courses will be added according to the student's research area).

IV. Comparative and Theoretical Criminal Justice Studies

CJ 650	CJ 625
CJ 525	CJ 630
CJ 526	CJ 631
CJ 562	CJ 626

V. Juvenile Justice

CJ 525	CJ 560	CJ 650	SWK 615
CJ 550	CJ 561	CJ 660	SWK 634
CJ 551	CJ 562	SWK 610	SWK 638
CJ 552	CJ 625	SWK 612	SWK 639

(Selection of the Juvenile Justice specialty entails completion of forty-eight (48) hours of course work in order to comply with state policy and federal court orders governing state employees of the Department of Youth Services. An included minor of eighteen (18) hours of course work is required in psychology, counseling psychology or social work.)

DEPARTMENT OF ENGLISH

The Department of English offers programs leading to the Doctor of Philosophy, Master of Arts, Master of Science, and Specialist in English degrees. Within the framework of these degree programs, students may specialize in the traditional areas of English and American Literature, in Creative Writing, Linguistics, TESOL, or Composition/Rhetoric.

General academic and admission requirements for all graduate degrees are set forth in another section of this **Bulletin** and general departmental requirements are

listed below. Specific requirements for the various specializations, e.g., Creative Writing, TESOL, etc., are described in information sheets available at the English Office, College Hall 210 (requirements for the Master of Arts and Master of Philosophy degrees in Comparative Literature are listed elsewhere in this **Bulletin**).

The Doctor of Philosophy

The Doctor of Philosophy degree offered by the Department of English is designed to prepare students for careers as scholars and teachers. This degree is taken after the candidate has earned a master's degree and meets all University and departmental admission requirements. The department specifies all applicants take three areas of the GRE (verbal, quantitative, advanced English) and score a minimum of 950 on the combined aptitude and 500 on the advanced test. Other departmental requirements follow.

1. A minimum of forty-eight (48) semester hours beyond the master's degree including courses in bibliography and methods and literary criticism.
2. A qualifying examination after one full semester's work.
3. Proficiency in two foreign languages.
4. A written comprehensive examination.
5. Presentation and defense of dissertation.

Precise details of the PhD program are available from the Department of English.

The Specialist in English

The Specialist in English degree offered by the Department of English is taken after earning a master's degree or its equivalent in English and is intended primarily for teaching careers in high schools and junior colleges. The Specialist in English degree currently meets the Mississippi State Department of Education requirements for AAA certification for those who already hold AA certification.

Specific requirements include the following:

1. A minimum of 30 semester hours of work beyond the master's degree.
2. One full-time semester of residence, all twelve semester hours of course work being taken on the Hattiesburg Campus.
3. An acceptable written thesis and an oral defense of the thesis **or** the completion of a field-based problem.
4. English 640, Bibliography and Methods of Research in English, 3 hours; English 695, Advanced Methods in English, 3-9 hours; English 790, English Colloquium, 3-6 hours; English 798, Thesis, 3 hours (for Thesis **or** a field-based problem).
5. At least 9 hours of course work must be taken in **one** of the following areas:
 - a. British Literature before 1700.
 - b. British Literature between 1700 and 1900.
 - c. American Literature before 1900.
 - d. Literature of the Twentieth Century.
 - e. Creative Writing.
 - f. Linguistics.
 - g. World Literature.
 - h. Composition/Rhetoric
6. A maximum of 9 semester hours of course work may be taken in a related field outside the English Department. (Workshop and conferences credits may apply.)

The Master of Arts

Requirements for the Master of Arts degree include the following:

1. A minimum of thirty (30) semester hours of graduate credit including at least twelve (12) hours in an area of concentration such as English Literature, American Literature, Linguistics, Creative Writing, or Comparative Literature. A minimum of fifteen of the thirty hours must be taken at the 600-level or above with six in the area of concentration; however, English 714, 715, and 792 may not be used to satisfy this requirement.
2. English 506 (with approval, another linguistics course may be substituted) and English 640.
3. Foreign Language proficiency. (See the appropriate section of the **Bulletin**.)
4. Thesis (six hours credit).
5. An oral examination on the thesis and the related area of concentration.

The Master of Science

Requirements for the Master of Science degree include the following:

1. A minimum of thirty (30) semester hours of graduate credit including at least eighteen (18) hours in English **and** American Literature with one course from at least five of the following categories: Old and Middle English Literature; Renaissance Literature; Restoration and Eighteenth-Century Literature; Nineteenth-Century Literature; Modern British **and** Modern Continental Literature; American Literature; Beginnings to 1900; and American Literature: 1900 to present.
A minimum of fifteen of the thirty hours must be taken at the 600-level or above. English 714, 715, 791, and 792 may not be included in these fifteen hours.
2. English 502 or English 506 (with approval, another linguistics course may be substituted) and English 640.
3. An optional six (6) hours of electives in related fields outside the Department of English.
4. A comprehensive examination which may be either written or oral.

DEPARTMENT OF FOREIGN LANGUAGES

Candidates may study toward the attainment of either the Master of Arts or the Master of Science degree in French, German, or Spanish. Applicants for admission to the graduate program in this department should be able to demonstrate advanced undergraduate knowledge of an appropriate foreign language. Those intending to emphasize literature should have already engaged in systematic study of the literature of some linguistic area.

Master of Arts

All students are expected to complete the following requirements:

1. A minimum of thirty (30) hours of graduate credit, fifteen (15) hours of which must be at the 600 level or above.
2. Proficiency in a second foreign language.
3. A comprehensive written examination on the student's academic program.
4. A thesis which will confer six hours credit within the minimum hourly requirements.
5. An oral examination on the thesis.

On special advisement, courses in comparative literature may be counted toward the major. (See Comparative Literature.) No minor is necessary. If a minor is

elected, it consists of nine (9) to twelve (12) hours of course work within the minimum hourly requirements.

Master of Science

All students are expected to complete the following requirements.

1. A minimum of thirty (30) hours of graduate credit, fifteen (15) hours of which must be at the 600 level or above.
2. An academic minor consisting of nine (9) to twelve (12) hours of course work within the minimum hourly requirement.
3. A comprehensive written examination on the student's academic program.

On special advisement, courses in comparative literature may be counted toward the student's major or minor. (See Comparative Literature.)

CURRICULUM IN COMPARATIVE LITERATURE

The interdepartmental curriculum in Comparative Literature offers a program of study learning to the degrees of Master of Arts or the Master of Philosophy. Responsibility for the curriculum is shared by the Department of English and the Department of Foreign Languages. Students beginning work in the program should have command of two languages, one of which may be English. The aim of the curriculum is to prepare students to deal intelligently and originally with a variety of literary documents, with theoretical and practical problems in the study of literature, and with the relationships of literature to other forms of art and other aspects of culture.

Requirements for the degree include successful completion of the following:

1. Thirty-three (33) hours of graduate credit, eighteen (18) of which are numbered 600 or above, to include:
 - a. Twelve (12) hours in the literature of one language, ancient or modern.
 - b. Six (6) hours of thesis.
 - c. Fifteen (15) hours in comparative literature and in approved related disciplines, e.g., the literature of another language, art, music, philosophy, history, linguistics.
2. An examination covering the student's specific course of study.
3. A thesis and a final defense of the thesis.
4. Graduate School requirements for proficiency in a foreign language. (The language chosen as a research tool may not be one of the two languages of the student's curriculum.)

Master of Philosophy

Requirements for the Master of Philosophy degree include successful completion of the following:

1. Sixty (60) hours of graduate credit, thirty (30) of which are numbered 600 or above, to include approximately the following courses:
 - a. Twenty-one (21) hours in the literature of one language.
 - b. Twelve (12) hours in the literature of a second language.
 - c. Six (6) hours in the literature of a third language.
 - d. Eighteen (18) hours in comparative literature and approved related disciplines.
 - e. Three (3) hours of thesis.
2. A residency requirement of one semester of full-time work on the Hattiesburg Campus.
3. An examination covering the student's course of study.
4. A thesis and a final defense of the thesis.

DEPARTMENT OF GEOGRAPHY AND AREA DEVELOPMENT

The Department of Geography and Area Development offers the following graduate degree programs:

1. Master of Arts and Master of Science in Geography
2. Master of Philosophy in Geography
3. Master of Science in Economic Development
4. Master of Arts in Economics

The department features coursework in fundamental geographic skills, planning, and economic development and the opportunity for advanced study and research in a broad variety of systematic, technical, and regional fields. Study concentration available which reflect faculty interest and competency include: urban and transportation geography; community and regional planning; resources management; environmental planning; economic geography; land use; economic development; cultural and population geography; applied physical geography; and geographic techniques and methods emphasizing cartography, computer skills, and remote sensing.

The department also coordinates the Master of Arts program in Economics for the College of Liberal Arts.

The student is held responsible for all graduate regulations. The student's major professor will help in any way possible, but the student is expected to know what is required and to take full responsibility. General academic requirements are explained fully earlier in the **Bulletin**; departmental requirements are listed below.

MASTER'S PROGRAMS IN GEOGRAPHY

Programs falling under both the MA and MS are designed to prepare students for further graduate study and for employment in such areas as urban planning, area development, business, government service, or teaching. Participation in an internship program is generally available to all departmental graduate students, but particularly to those pursuing a master's planning concentration in geography or the economic development degree. Prospective students should be prepared to spend up to two years completing all degree requirements: progress may be accelerated by taking advantage of the summer sessions.

Curriculum Requirements

1. A minimum of thirty-six (36) semester hours in graduate level geography courses with at least eighteen (18) hours of work in courses at the 600-level. With the approval of the major professor, the student has an option of taking (outside the department) up to twelve (12) semester hours of cognate courses within the minimum hourly requirements.
2. GHY 610. This course should be taken the first time it is offered during the student's residence.
3. Demonstrated proficiency in cartography, quantitative methods, field methods, and one other techniques course in geography. Proficiency is generally established (on an individual basis) by evidence of satisfactory completion of coursework emphasizing these techniques sometime in the student's academic career, at either the graduate or undergraduate level. GHY 410 (510), 411 (511), 412 (512), 416 (516), or 612 or 613 may be used to satisfy the "other techniques" requirement.
4. A thesis, which will confer six (6) semester hours credit to be counted as part of the total minimum hourly requirements for the degree. Except under

unusual circumstances, the student will be expected to have his thesis proposal submitted and approved no later than the end of his second semester residence.

5. An oral examination on the student's academic program and an oral defense of the thesis.

Other Specific Requirements

In addition to the above, the following requirements are specified for those students working respectively, for either the Master of Arts or the Master of Science degrees in Geography (credit hours taken in satisfaction of **either** requirement cited below may not be applied toward the minimum requirements for the degree).

Master of Arts

A reading knowledge of one approved foreign language. Proficiency in a foreign language may be established either by: (1) completion of nine (9) semester hours of an approved foreign language with a grade of **C** or better or (2) by satisfactorily passing the Princeton Examination in that language. Transfer credit will be evaluated on an individual basis. All evaluation related to this requirement will be accomplished by the University's Department of Foreign Languages.

Master of Science

Demonstrated proficiency in statistics **or** in a computer-programming language suitable to the degree program, research, and/or career needs of the candidate. Proficiency in statistics may be established either by examination or by satisfactorily completing the prescribed University two-course sequence in CSS 221/212 or ECO 301/302 with grades of **C** or better. Proficiency in a specific computer language may be satisfied either by examination or by completing a combination of CSS 240 and 342 or CSS 240 and 541 with grades of **C** or better. Transfer credit will be evaluated on an individual basis. All evaluation related to this requirement will be accomplished by the University's Department of Computer Science and Statistics or the Department of Economics.

Master of Philosophy

The department offers the Master of Philosophy degree in Geography in accordance with the academic requirements stated elsewhere in this **Bulletin**.

Master of Science Program in Economic Development

A major feature of this program is that it is offered jointly with the Mississippi Research and Development Center. Staff, facilities, and other resources of both institutions are utilized and courses are offered at the USM Hattiesburg and Gulf Park campuses as well as at the Mississippi Research and Development Center in Jackson.

A fundamental purpose of the program is to assist the student in acquiring competence in the application of the concepts, skills, working tools, and creative approaches increasingly so essential to those involved in contemporary economic development-whether at the national, regional, or community level.

Except under extenuating circumstances, new full-time degree-seeking students are accepted only in the fall semester. Entering students are expected to have satisfactorily completed (**C** or better) the equivalents of one year of basic economics and one year of elementary college-level statistics although, under certain circumstances, these prerequisites may be satisfied concurrently with enrollment in the program.

Curriculum Requirements:

1. Successful completion of a minimum of forty-two (42) semester hours in graduate level courses as follows:
 - a. Twenty-four (24) hours of prescribed core courses (GHY 515, 551, 653, 654, 656, 657, 658, and 666).
 - b. Nine (9) hours of career-specific or elective minor courses taken from one of the following disciplines-

Accounting	Finance
Community & Regional Planning	Geography
Computer Science	Management
Economics	Political Science
Environmental Science	Sociology
 - c. Six (6) hours of thesis.
 - d. Three (3) hours of the GHY 551 internship (additional internships may be feasible but do not count as part of the total credit hour requirements).
2. An oral comprehensive examination of the student's academic program and an oral defense of the thesis.

Master of Arts Program in Economics

The Master of Arts degree in Economics is available through the College of Liberal Arts. The program is coordinated by the Department of Geography and Area Development.

This degree program is available to individuals desiring to do advanced work in Economics but who have not satisfied the undergraduate prerequisites for the Master of Business Administration. The purpose of the degree is to prepare students for positions as economists in education, business, or government, or to prepare them for doctoral work in economics at another university.

The candidate for the Master of Arts in Economics is required to minor in a discipline of his choice in the College of Liberal Arts. Proficiency in a foreign language and a thesis are also required. Language proficiency is determined as under the Master's Programs in Geography cited above. The student's thesis and examination committee will consist of two members from the Department of Economics and one from the minor department; the major professor will be an economist.

To promote scholarship, fellowship, and the advancement of economics, all graduate students in Economics are encouraged to participate in the activities of the Economic Society, a student organization. Graduate students who qualify may be offered membership in Omicron Delta Epsilon (Artus), the national honorary economics society.

Curriculum Requirements

Hours	Hours
ECO 606, 608, 620, 630, 670 15	Minor Requirements 12
ECO 610 or 692 3	Thesis 6
	Total 36

DEPARTMENT OF HISTORY

The Department of History participates in programs leading to the degree of Master of Arts, Master of Science, Master of Philosophy, and Doctor of Philosophy.

General Regulations:

The student is held responsible for following all graduate regulations. The student's major professor will help in any way possible, but the student is expected to know what is required and to take full responsibility. The procedure is explained fully in another part of this **Bulletin**.

MASTER'S PROGRAMS

Admission Requirements:

See **Academic Requirements** section of this **Bulletin** for general requirements which are the same as those required by the Graduate school.

Master of Arts

All students are expected to complete the following requirements:

1. A total of thirty (30) semester hours in history with eighteen (18) hours in courses numbered over 600.
2. HIS 710 at its first offering by the department.
3. HIS 740 recommended for all graduate students in American History.
4. A reading knowledge of one foreign language.
5. With the approval of the major professor the student may take a nine (9) hour minor within the minimum hourly requirements.
6. A thesis which will confer six (6) hours credit within the minimum hourly requirements.
7. After satisfactory completion of the course work and the thesis, the student will take a comprehensive oral examination.

Master of Science

All students are expected to complete the following requirements:

1. A total of thirty-three (33) semester hours with eighteen (18) hours of work in courses numbered above 600.
2. HIS 710 at its first offering by the department.
3. HIS 740 recommended for all graduate students in American History.
4. An outside minor of nine (9) hours within the minimum hourly total of thirty-three (33) semester hours is optional but recommended for social studies teachers.
5. A thesis (optional)
6. After satisfactory completion of the course work, the student will take a comprehensive oral examination.

Fields

The Department of History offers the following areas of concentration for the Master of Arts and Master of Science degrees:

- I. United States History
- II. European History
(This area may include Continental European History Since 1789, British History, and Modern Russian History)
- III. Latin American History

All MA and MS students must, on the oral examination, demonstrate proficiency in one primary area of concentration and one secondary area. Two members of the examining committee will represent the primary area and one member will represent the secondary area. United State History and European History may be selected as either primary or secondary areas. Latin American History may be selected only as a secondary area. The nature and scope of the material to be included from each

area will be determined by the student with the agreement of his/her graduate committee.

The MA student should successfully complete fifteen (15) hours of course work in the primary area and six (6) hours in the secondary area in addition to History 710 and the six hours of thesis work.

The MA thesis must be written in the primary area of concentration. A student may write a thesis in Latin American History if permission to do so is granted by the department.

The MS student should take twenty-one (21) hours of course work in the primary area and nine (9) hours in the secondary area in addition to History 710.

Students planning to pursue a doctoral degree must write a thesis and should enroll in the MA program.

MASTER OF PHILOSOPHY DEGREE

Admission Requirements:

1. A master's degree or its equivalent in social studies. Those students seeking AAA certification must hold AA certification in social studies.
2. A grade point average of 3.25 on all previous graduate work.
3. A combined score of 800 on the aptitude phase of the **Graduate Record Examinations**.

Degree Requirements:

1. A minimum of 30 hours beyond the master's degree, 15 of which must be at the 600-level or above.
2. A residency requirement consisting of one semester of full-time work on the Hattiesburg Campus.
3. A 3-hours thesis in the student's area of concentration with an oral defense of the thesis.
4. A minimum of 15 hours in history.
5. A minimum of 9 hours in social studies.
6. An optional 6 hours of the required 30 hours in related fields outside social studies.

DOCTORAL PROGRAM

Admission Requirement

The department requires a minimum grade point average of 3.5 on all graduate work and a combined score of 900 on the Aptitude Phase of the **Graduate Record Examinations**. Exceptions to these requirements may be made of those students who have received Master of Arts degrees from the University of Southern Mississippi, provided they receive a GRE score of 800, a unanimous recommendation by their Masters of Arts committees, and approval by a majority of the members of this department. Students so accepted will be classified "conditional," which status is removed by achieving a 3.5 average in twelve (12) hours work during the first two semesters.

A minimum of seventy-eight (78) semester hours of course credit beyond the baccalaureate degree, which includes a minimum of three research seminars—two in the field of the major and one in the departmental minor—and HIS 710 and 740 must be taken by all students.

Major and Minor Requirements

The department offers the Doctor of Philosophy degree in U.S. History and in European History Since 1789. If a candidate seeks a doctorate in U.S. History, he

must demonstrate proficiency in all of American History. In addition he must demonstrate proficiency in either European History from 1789-1870 or European History from 1870 to Present. He must also demonstrate proficiency in one of the following fields: Medieval, Latin American, British History 1485-1760, or British History 1760 to Present, one of the European fields not selected above, or a specialized field such as Russian History with the consent of the major professor and the graduate committee. He is required also to develop an outside minor in one of the social sciences or humanities in which he will take twelve (12) semester hours of work.

If a candidate majors in the field of European History, he must major in the period of Europe Since 1789. He must demonstrate proficiency in either American History to 1865 or American History Since 1865. He is also required to demonstrate proficiency in one of the following fields: Medieval, Latin American, Britain 1485-1760 or Britain, 1760 to Present, one of the American fields not selected above, or a specialized field such as Russian History with the consent of the major professor and graduate committee. In addition, he must establish an outside minor of twelve (12) semester hours in any one of the fields of social sciences or humanities. The minor in either case should be decided after consultation with the candidate's major professor and his graduate committee.

Language Requirement

Each prospective candidate for the doctoral degree must demonstrate proficiency in French and in German during his period of residence for the Doctor of Philosophy degree. Upon the recommendation of the major professor and the approval of the graduate committee, some other language may be substituted for either French or German. The first language must be completed before the start of the second year of graduate study, and the second language in the semester before the general comprehensive examinations are taken.

Doctoral Committee:

An information sheet regarding the appointment of a doctoral committee and doctoral examinations is available in the Department of History.

Dissertation

A dissertation is expected to be a mature and competent piece of writing, embodying the results of significant and original research on a subject chosen by the candidate and approved by the major professor and the graduate committee.

Upon completion and approval of the dissertation, the candidate is expected to stand satisfactorily a final examination on the dissertation and the field in which the dissertation lies.

LATIN AMERICAN STUDIES PROGRAM (LASP)

The Latin American Studies Program participates in a Master of Arts and a Master of Science degree in Latin American Studies from several inter-University disciplines with major emphasis in history and political science. For the Master of Arts degree a minimum of thirty (30) and for the Master of Science degree a minimum of thirty-three (33) graduate semester hours is required as follows:

Master of Arts

- I. Bibliography course in either Latin American History or Political Science.
- II. Nine hours of graduate courses in Latin American History or Political Science.

- III. Twelve hours of graduate courses related to Latin America in any of the following fields: foreign language, geography, sociology, geology, anthropology, economics, and political science.
- IV. Six hours of thesis.

Master of Science

- I. Bibliography course in either Latin American History or Political Science.
- II. Twelve hours of graduate courses in Latin American History and Political Science.
- III. Eighteen hours of graduate courses related to Latin America in any of the following fields: foreign language, geography, sociology, geology, anthropology, economics, history, and political science.

A prerequisite for admission to the master's program is a baccalaureate degree accepted by the Graduate School and by the Latin American Studies Committee (LASC). Students who lack necessary background, such as reading fluency in Spanish or Portuguese, may be accepted, provided they make up these requirements prior to the completion of the program. The LASC may also make other variations which will best meet the individual student's background, needs and desires while assuring the highest standards for the degree.

DEPARTMENT OF PHILOSOPHY AND RELIGION

The Department of Philosophy and Religion offers a course of study leading to the Master of Arts degree with a major in Philosophy, and a graduate minor in either Philosophy or Philosophy and Religion.

MASTER'S DEGREE PROGRAM

In addition to the general admission and academic requirements for all graduate programs as set forth in this **Bulletin**, candidates for the Master of Arts degree with a major in Philosophy shall also be required to fulfill the following:

- 1. A total of 30 semester hours of credit, with at least 18 hours of that work in courses numbered 600 and above.
- 2. A thesis, for which the student receives 6 hours credit toward the 30 total required hours.
- 3. A comprehensive examination, normally taken after the completion of all formal course work but before the thesis is officially begun. The comprehensive examination is intended to test the student's general competence in philosophy.
- 4. An oral examination on the completed thesis. During the oral examination, the student will be expected to be able to explain and defend the ideas presented in the thesis.
- 5. A reading knowledge of one foreign language.
- 6. Optional Minor: With the approval of the director of graduate studies, a student may have a minor (including religion), consisting of 9 semester hours in a (single) field which is related to the student's philosophical interests. Three semester hours of that minor may then be counted toward the 30 total required hours.

DEPARTMENT OF POLITICAL SCIENCE MASTER'S DEGREE PROGRAM

Master of Arts

Requirements for the Master of Arts degree include: thirty (30) semester hours of course work, including a thesis, and a twelve (12) hour minor (optional). A reading knowledge of one foreign language is also required.

Master of Science

Requirements for the Master of Science degree include: thirty-three (33) semester hours of course work, including an outside minor of nine (9) hours. A thesis is optional.

Master of Philosophy

The Department of Political Science offers work leading to the Master of Philosophy degree. See elsewhere in this **Bulletin** for the general requirements.

Course Requirements in the Major

Graduate students who expect to receive the Master of Arts degree will select three fields in political science in which to concentrate their course work. Graduate students who expect to receive the Master of Science degree will, in addition, select an outside minor, with the advice and consent of their committee.

The fields of Political Science and the courses in each field are:

Political Theory and Methodology

520, 521, 525, 720, 721, 723

American Government and Politics

501, 502, 504, 506, 507, 508, 509, 700, 710

International Relations

531, 532, 534, 535, 730, 731

Comparative Government and Politics

550, 551, 552, 553, 555, 556, 750, 751

Public Administration

571, 572, 573, 574, 770

Public Law

580, 581, 582, 584, 585, 589, 781

Comprehensive Examination

A written and oral comprehensive examination will be given at or near the end of the course work on the three fields of concentration and on the minor, if applicable.

Courses Accepted from Other Departments

The following courses will be accepted as political science for purposes of completing a major or minor if approved by the student's adviser.

ECO 501, HIS 512, 545, 546, 556, 557

DOCTORAL PROGRAM

In addition to the general requirements listed above in this **Bulletin**, the Department of Political Science makes the following specific requirements.

A. Two research tools are required: competency in two foreign languages; competency in one foreign language and data processing or statistics. Determination of the research tool requirements should be made by the student's doctoral committee. A dissertation based on scholarly research in original sources is required.

B. A Graduate Planning Curriculum Conference will be held for each student entering doctoral work, preferably during the first semester.

Course Requirements in the Major

Doctoral candidates must specialize in four fields of political science and one outside minor. (The fields and courses are listed under the master's program above.)

Comprehensive Examination

At the end of the course work, and following successful completion of the research tool requirement, a written and oral comprehensive examination will be taken in the four fields of the major, and, at the student's doctoral committee's discretion, in the minor. Should the student fail the comprehensive examination in one or more fields a re-examination may be given by the department following a lapse of two semesters, or when the student has taken sufficient remedial work to warrant re-examination. Should the student fail the second examination, he will not normally be allowed to continue graduate work in the department.

DEPARTMENT OF SOCIOLOGY AND ANTHROPOLOGY

The Department of Sociology and Anthropology's graduate program provides for the Master of Arts degree in Sociology and a sociology minor in the master's and doctor's degree programs of other departments.

MASTER'S PROGRAM IN SOCIOLOGY

General regulations governing admission to the Graduate School, requirements of the College of Liberal Arts, and requirements for admission to candidacy for degree are to be found elsewhere in this **Bulletin**. The graduate student should familiarize himself with these requirements and assume responsibility for their discharge.

The major professor and departmental chairman will work out a program of study with each student electing to do graduate work in Sociology.

If the student is uncertain as to whether he has satisfied undergraduate course prerequisites for any particular course, he should consult the instructor for clarification.

In the major area, the Department of Sociology and Anthropology offers only the Master of Arts degree. General requirements correspond to the requirements of the University and its Graduate School. Policies of admission to the University, admission to the Graduate School, admission to candidacy for degree, and grading standards conform to those laid down by the University.

Master of Arts Requirements

Twenty-four (24) semester hours in Sociology (including six (6) hours of thesis credit).

Twelve (12) semester hours in a minor subject approved by the Department of Sociology.

At least half of the hours must be in courses numbered 600 or above.

Reading knowledge of one foreign language (proficiency as determined by Graduate School policy).

A thesis to be approved by the major professor.

A written comprehensive examination.

An oral examination by the student's committee to be based on the thesis, the major, and the minor.

MASTER'S PROGRAM IN ANTHROPOLOGY

The Department of Sociology and Anthropology offers two programs within the

College of Liberal Arts leading to the Master of Arts and Master of Science degrees in Anthropology. Requirements for these degrees as follows:

Master of Arts

A minimum of thirty-three (33) semester hours, eighteen (18) of which must be earned in course work at the 600 level or above; acceptable proficiency in one foreign language; and completion of an approved thesis. An outside minor of nine (9) semester hours in an approved related field may be included toward the total hours required.

Master of Science

A minimum of thirty-three (33) semester hours, eighteen (18) of which must be earned in course work at the 600 level or above; acceptable proficiency in statistics; and completion of an approved thesis. An outside minor of nine (9) semester hours in an approved related field may be included toward the total hours required.

The Department of Sociology and Anthropology also offers a graduate minor in Anthropology for students in the master's and doctor's degree programs of other departments.

DEPARTMENT OF SPEECH AND HEARING SCIENCES

The Department of Speech and Hearing Sciences offers programs leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees. An earlier section of this **Bulletin** covers the specific requirements for these degrees. At the master's level, emphasis is possible in three principal areas: (1) speech/language pathology, (2) audiology, and (3) education of the deaf. The program of study at the doctoral level is planned with emphasis in one of three principal areas: (1) speech/language pathology, (2) audiology, and (3) speech and hearing sciences.

MASTER'S PROGRAM

Potential graduate students should refer to other sections of the **Bulletin** for information regarding admission requirements as set forth by the Graduate School and the College of Liberal Arts. A major in Speech and Hearing Sciences at the master's level requires a minimum of thirty-four (34) semester hours. The Master of Arts degree requires a thesis, four semester hours of clinical practicum and no less than eight three-semester hour courses. The Master of Science degree requires four semester hours of clinical practicum and no less than nine three-semester hour courses. A thesis is optional for the Master of Science degree.

Master's Degree with Emphasis in Audiology

The master's degree with an emphasis in audiology is a clinical degree designed to meet the academic and practicum requirements for the Certificate of Clinical Competence in Audiology awarded by the American Speech and Hearing Association. Programs for students seeking this degree are arranged with the candidate's academic adviser.

Master's Degree with Emphasis in Education of the Deaf

The program leading to the master's degree with an emphasis in education of the deaf is individualized to the needs of the student. The program is certified by the National Council for Accreditation of Teacher Education (NCATE). This certification is reciprocal among approximately 40 states. Specialization in education of the deaf may be pursued in a number of areas including preprimary, elementary (grades 1-8), secondary, secondary special subject, or a specialty area. Selection of specialization

areas is governed by the candidate's background, interests, and employment objectives.

Master's Degree with Emphasis in Speech/Language Pathology

The master's degree with emphasis in speech/language pathology is a clinical degree designed to meet the academic and practicum requirements for the Certificate of Clinical Competence in Speech Pathology awarded by the American Speech and Hearing Association. Unless other arrangements are made with the faculty of the Department of Speech and Hearing Sciences, the following courses are to be taken by candidate's for the master's degree in this emphasis area:

SHS 513, 515, 516, 517, 601

612, 696, 712, 716, 761, 764

A student in speech/language pathology must serve a clinical internship at a selected off-campus site at the discretion of his adviser and in conjunction with his background and professional interests.

DOCTORAL PROGRAM

Potential doctoral students will be advised individually by the department faculty. Programs are devised in accordance with the applicant's background, interests, and professional objectives. Applicants for the PhD program in Speech and Hearing Sciences are urged to become familiar with portions of the **Bulletin** which deal with admission, academic, and residency requirements.

ACCREDITATION

The master's degree programs in speech/language pathology and audiology are accredited by the Education and Training Board, American Boards of Examiners in Speech Pathology and Audiology. The USM Speech and Hearing Clinic is accredited by the Professional Services Board, American Boards of Examiners in Speech Pathology and Audiology.

SCHOOL OF LIBRARY SERVICE

Graduate Degrees

1980-1981

Department	Major	Degree
Library Science	Library Science	Master of Library Science

SCHOOL OF LIBRARY SERVICE

Onva K. Boshears, Jr., Dean

The School of Library Service at the University of Southern Mississippi was established on July 1, 1976, as a professional school. Prior to this date, the academic program in librarianship was under the College of Education and Psychology. Since the first master's degree in Library Science was awarded in 1965, the program has continued to grow and develop into a truly comprehensive instructional program for all students who plan to become professional librarians in public, school, academic, or special libraries. For the general University graduate student, the School offers a variety of course offerings for acquiring skill in the scholarly use of library resources as research tools. Finally, the School performs a vital role in the continuing development and expansion of library services at all levels in the State of Mississippi as well as providing continuing education for practicing librarians.

The graduate curriculum in Library Science provides instruction in the following areas of librarianship: reference, cataloging and classification, selection and acquisition, administration, bibliography, non-print media, history of the book, libraries, printing and publishing, library programs for children and youth, and library automation and information science.

Providing prospective librarians with professional knowledge and skills for effective library service, however, is not the only objective of the School. The faculty believes that professional education should also be concerned with fostering those attitudes and understandings which will help students develop an appreciation of the changing role of the library in society. The library profession will flourish only as students are prepared to participate intelligently in the process of relating library services to the larger social and cultural needs of contemporary society.

Purpose of the Master's Program in Library Science

The purpose of the Library School is to educate students for professional roles in librarianship and related areas who will be responsive to the changing needs of a free and open society, and to the aims of their chosen profession.

Objectives of the Master's Program in Library Science

1. To cultivate in students an understanding of the principles of librarianship as well as the requisite qualities of reflective thinking, critical and evaluative analysis, and effective communication.
2. To acquaint students with the historical evolution of libraries and librarianship so they can perceive the relationship between society and the dissemination of knowledge and information, and identify the library's on-going role in that process.
3. To equip students with the knowledge and skills needed to perform efficiently in libraries and to work effectively in serving the public.
4. To introduce students to those management theories and library administrative procedures which enable them to fulfill professional responsibilities in all types of libraries.
5. To foster in students an awareness of issues related to intellectual freedom and to encourage a commitment to the Library Bill of Rights.
6. To generate in students a concern for continuing growth so they will take active roles in professional organizations, participate in continuing education, and keep abreast of current research related to the profession.

Admission Requirements

A graduate student in Library Science must meet the general requirements for admission to the University graduate program as outlined elsewhere in the **Graduate Bulletin**, scoring not lower than 800 on the combined Aptitude Section of the GRE to qualify for regular admission. For conditional admission, the School of Library Service adheres to the policies of the Graduate School as stated in the **Graduate Bulletin**. In keeping with University practice and policy, sex, religion, race, physical disability, creed, and age play no role in the consideration of applicants for admission to the MLS degree program.

In addition to the application forms which must be submitted to the Admission Office of the University, the School of Library Service requires the submission of a personal questionnaire, plus two letters of recommendation (on forms supplied). One letter of recommendation should be from a librarian. These forms may be obtained by writing to the School of Library Service, not to the Graduate School. Personal interviews with applicants will also be conducted whenever possible.

Applicants are expected to present a strong overall undergraduate academic record with a significant distribution of course work in the liberal arts, including courses in the sciences as well as the humanities and the social sciences, since librarians are usually expected to be familiar with a broad spectrum of the fields of knowledge. An undergraduate major or minor in librarianship is not a prerequisite for admission. Although not required, it is highly desirable that an applicant have studied at least one foreign language at some point in his previous education. Languages are often required for bibliographic positions or for public library positions in bi-lingual areas of the United States. In short, the prospective librarian should have acquired a broad liberal education at the undergraduate level, including both oral and written facility with English, before entering a program of graduate professional education in library service.

Thus, the decision to admit an applicant to the MLS degree program is based on a careful evaluation of all of the preceeding factors in relationship to the recognized educational needs of a student as well as his or her genuine interest in a library service career.

THE MASTER OF LIBRARY SCIENCE DEGREE

Candidates for the Master of Library Science (MLS) degree must earn a minimum of (36) semester hours of credit with a 3.00 cumulative grade point average. Eighteen (18) of these hours must be at the 600 level of courses. A maximum of six (6) hours may be elected from the offerings of other departments within the University. The Graduate School allows a maximum of twelve (12) hours of extension and/or transfer credit. A comprehensive examination is required: a thesis is not required.

The program of study for students will be individualized, taking into consideration previous academic backgrounds, experience, and career objectives. All programs of study must be planned with the counsel of a faculty adviser and approved by the Dean of the School of Library Service.

I. Course Requirements (21 hrs.)

LS 501, 505, 506, 511, 516

605 or 651 or 654

665 or 666 or 667

Electives 15 hours

If near equivalencies to any of the above courses were taken on either the undergraduate or graduate level at an accredited institution with a grade of **B** or above, other electives may be substituted. Courses at the 500 level may also be waived by special examination or by the Dean of the School.

II. Course Requirements for School Library-Media Specialist Certification at the Master's Level

Students who wish to qualify for a Mississippi Class AA certification in Library Science must hold or qualify to hold a Class A Elementary or Secondary Teacher's Certificate. The student need not, however, have completed any library science courses on the undergraduate level.

Students who plan to use the master's degree in Library Science for Class AA certification should complete four (4) of the following courses in addition to those listed above: LS 517, 518, 525, 526, 609, 621, 622, 624, 628, 629, 634, 668. Students without previous library experience may be advised to take LS 689.

If near equivalencies to any of the above were taken on either the undergraduate or graduate level at an accredited institution with a grade of **B** or above, other electives may be substituted. Courses at the 500 level may also be waived by special examination or by the dean of the School.

Certification requirements in the State of Mississippi will change on September 1, 1981. Student should see their adviser or the dean of the School of Library Service for further information concerning certification requirements.

SCHOOL OF NURSING

**Graduate Degrees
1980-1981**

Department	Major	Degree
Nursing: Graduate Program	Nursing	Master of Science

SCHOOL OF NURSING

Elizabeth C. Harkins, Dean

MASTER OF SCIENCE DEGREE PROGRAM

The School of Nursing offers two areas of concentration leading to the Master of Science degree: community health nursing* and mental health nursing. Students may elect a sub-option for cross-cultural nursing within the mental health nursing area. Students are required to select a role option of administrator or educator.

Core courses requirements enable the student to study the problems and concerns of the delivery of nursing from a generalized theoretical perspective. The purpose of the community health nursing sequence is to prepare nurses oriented to community health nursing problems who can assume leadership roles. The mental health nursing sequence is developed to prepare nurses for creative leadership responsibilities in mental health. The cross-cultural sub-option within mental health nursing is designed to prepare nurses to assist ethnic and minority groups with concerns affecting their mental health.

The curricular requirements are outlined in this **Bulletin**. The program of studies may be completed in one calendar year. Students may elect additional preparation in a second area of concentration or a second role. In this instance, additional time is required.

Admission

In addition to meeting admission requirements for master's programs in this **Bulletin**, students must hold a baccalaureate degree in nursing and a current license to practice nursing.

Students entering the master's program in nursing must have completed a course in descriptive statistics at the undergraduate level or challenge this content during the first semester of enrollment. Entry into the master's program requires evidence of acquisition of the skills of physical assessment by transcript, a letter from a preceptor, or a satisfactory demonstration of the skills prior to the first practicum.

Academic Requirements

In addition to meeting requirements of this **Bulletin**, the student is required to complete thirty-nine (39) semester hours of credit, inclusive of a thesis (6 hours) or a professional paper (3 hours) with a supporting elective (3 hours).

All students complete the following core curriculum requirements: NSG 601, 603, and 604. Students select an area of concentration and a role development sequence. Elective cognates for both the area of concentration and the role are required (6 credits).

Hours		Hours	
NSG 601	3	NSG 632	4
NSG 603	3	NSG 633	4
NSG 604	3	NSG 652	4
NSG 611	3	NSG 653	4
NSG 612	3	NSG 678	4
*NSG 621	3	NSG 691	3
*NSG 622	4	NSG 692	3
*NSG 623	4	NSG 697	1-3
NSG 631	3	NSG 698	6

*Offered Fall, 1980-81, contingent upon available faculty.

COLLEGE OF SCIENCE AND TECHNOLOGY

Graduate Degrees 1980-1981

Department	Major	Emphasis	Degree
Master's Level			
Biology	Biology		Master of Science
Chemistry	Chemistry		Master of Science
Computer Science and Statistics	Computer Science		Master of Science
	Statistics		Master of Science
Geology	Geology		Master of Science
Mathematics	Mathematics		Master of Science
Medical Technology	Medical Technology		Master of Science
Microbiology	Food Science Technology		Master of Science
	Microbiology		Master of Science
Physics and Astronomy		Genetics	
	Physics		Master of Science
Polymer Science	Polymer Science		Master of Science
Science Education	Science Education		Master of Education Master of Science
Specialist's Level			
Biology	Biology		Master of Philosophy
Chemistry	Chemistry		Master of Philosophy
Microbiology	Microbiology		Master of Philosophy
Polymer Science	Polymer Science		Master of Philosophy
Science Education	Science Education		Specialist in Education

Doctor's Level

Biology	Biology	Doctor of Philosophy
	Biology	
	Botany	
	Genetics	
	Marine Biology	
	Microbiology	
	Zoology	
Chemistry	Chemistry	Doctor of Philosophy
Polymer Science	Polymer Science	Doctor of Philosophy
Science Education	Science Education	Doctor of Education Doctor of Philosophy

COLLEGE OF SCIENCE AND TECHNOLOGY

Gary C. Wildman, Dean

Karen M. Yarbrough, Assistant to the Dean

The College of Science and Technology offers degrees as outlined on the previous page. Please check each departmental section for areas of specialization.

The Departments of Biology, Geology, Mathematics, and Science Education, in cooperation with the College of Education and Psychology, offer programs leading to the Master of Education degree.

The Doctor of Education degree is offered in cooperation with the College of Education and Psychology by the Department of Science Education.

Environmental Science courses are so constructed as to provide a minor for a master's or doctoral degree program.

The programs of Architectural Technology, Building Construction Technology, Electronics Technology, Industrial Technology, and Mechanical Technology offer selected service courses at the graduate level. Course descriptions can be found elsewhere in this **Bulletin**.

For detailed information concerning a department's specified degree program please refer to that department in the following pages. The student's attention is also directed to another part of this **Bulletin** for general Graduate School requirements and regulations.

DEPARTMENT OF BIOLOGY

MASTER'S DEGREE PROGRAMS

The Department of Biology participates in programs leading to the Master of Science degree in Biology. For this degree a minimum of thirty (30) graduate hours is required, twelve (12) of which should be in minor area determined by the chairman of the department or the student's major professor. A general written departmental examination as well as an oral examination by candidate's committee should be taken near the end of course work. The written examination is given in October and April each year. An acceptable research program must be completed accompanied by a written thesis and an oral examination defending the thesis. The student will also be required to attend departmental seminars each semester. Within the department the student may study Biology, Zoology, Botany, and, in conjunction with the Gulf Coast Research Laboratory, Marine Biology.

The general requirements for the Master of Science degree are found elsewhere in this **Bulletin**.

DOCTORAL PROGRAMS

Biology, Botany, Marine Biology, or Zoology Emphases

The Department of Biology offers the Doctor of Philosophy degree in Biology. A student may select an emphasis area in either Biology, Botany, Marine Biology, or Zoology while majoring in Biology. The Marine Biology emphasis may be in conjunction with the Gulf Coast Research Laboratory. The degree of Doctor of Philosophy is conferred only in recognition of excellence in research and scholarship.

Work at the Gulf Coast Research Laboratory is recognized as resident work, but students doing their research at the Laboratory should expect to spend a minimum

of three consecutive semesters on the Hattiesburg Campus. Specific degree requirements may be obtained from the Department of Biology.

Microbiology Emphasis

The Department of Microbiology participates in this emphasis area. It is considered foremost to be a research degree; however, a student must demonstrate excellence in scholastic attainments as well as research capabilities. Specific degree requirements may be obtained from the Department of Biology.

Genetics Emphasis

The Institute of Genetics participates in this emphasis area. Specific degree requirements may be obtained from the Department of Biology.

DEPARTMENT OF CHEMISTRY

MASTER'S DEGREE PROGRAMS

The Department of Chemistry participates in programs leading to the Master of Science degree. For the master's degree a minimum of thirty (30) graduate hours is required.

The degree requires proficiency in a language, knowledge of computers, and major courses selected by the student in consultation with a graduate faculty committee chaired by the major professor. The department will require a qualifying examination to be taken by the student during the first week of entrance in the Graduate School. The results of this examination will be used to determine any deficiencies which must be removed. The student will also be required to participate in departmental seminars each semester of residence. Approximately six months before graduation the candidate must successfully pass a comprehensive examination in his/her major area. An acceptable problem in research must be completed and terminated by a thesis and an oral examination defending the thesis.

DOCTOR OF PHILOSOPHY PROGRAM

The Department of Chemistry feels that the degree of Doctor of Philosophy is not to be conferred because of the successful completion of a predetermined number of credit hours but only in recognition of excellence in research and scholastic attainment. However, the University requires a minimum of seventy-eight (78) hours beyond the bachelor's or forty-eight (48) beyond the master's degree.

The departmental requirements for the Doctor of Philosophy degree are those stated under the general requirement in this **Bulletin** plus the following:

1. The Department of Chemistry offers courses in the fields of analytical, biochemistry, inorganic, organic, and physical chemistry.
2. A student, with faculty consent, may choose to bypass the master's degree when proceeding toward the doctoral degree.
3. The course work required will be determined by the student and the graduate committee. The choice of the field of study shall rest with the student as shall the choice of the major professor after consultation of the student with each member of the graduate faculty.
4. One year of residence time will be allowed for the time spent in obtaining the master's degree if it is transferred from another school. Residence time is based on full-time study as determined by the department. Only under exceptional circumstances will a student be permitted to do any of the last two years of residence at another location. The dissertation shall be presented to

the major professor for correction and criticism before the end of the sixth week of the semester of graduation. After approval by the major professor, copies of the dissertation will be circulated to the doctoral committee for correction and criticism. After the committee's approval the oral examination will be scheduled by the chairman of the doctoral committee consistent with University policy.

**DEPARTMENT OF COMPUTER SCIENCE
AND STATISTICS**

The Department of Computer Science and Statistics participates in programs leading to the Master of Science degree with a major in either computer science or in statistics. For the master's degree, between thirty-five (35) and thirty-eight (38) hours are required, eighteen (18) of which must be in courses numbered above 600. For the Master of Science degree the student has the option of writing a thesis or of completing a three (3) hour research project and three (3) additional hours of graduate course work.

Master of Science Degree in Computer Science

The following is a list of courses required of all candidates.

	Hours
CSS 541, 562, 635, 660	14
The remainder of the work can be completed by either of three options.	
	Hours
I. Systems Science:	
CSS 570, 571, 577, 670, 678	17
Thesis or Research Option	6
II. Business Systems:	
CSS 542, 580, 620, 681	14
ACC 625 or MGT 625	3
Thesis or Research Option	6
III. Software Design:	
CSS 641, 642, 650 or 670, 662, 681	15
Thesis or Research Option	6

Master of Science Degree in Statistics/Operations Research

A suggested program is given below.	Hours
CSS 515, 516, 517, 518, 541, 635, 636, 637, 620.	29
Thesis or Research Option	6

Students may elect an option in Operations Research by taking CSS 621 and 690 in addition to the above courses (CSS 636 would be omitted). Students selecting this option must show additional proficiency in linear programming.

Applicants must hold a baccalaureate degree from an accredited college or university and satisfy entrance requirements set forth by the Graduate School of the University of Southern Mississippi. In addition, prospective students must have a proficiency in Fortran and one other general purpose language.

Students may be required to pass a written examination over undergraduate prerequisite courses in Fortran, assembly language. COBOL, data structures, and linear programming. Failure in any area can result in the student's being required to audit or retake the appropriate undergraduate course.

Doctoral candidates may take nine (9) semester hours in either statistics or computer science in lieu of a second language. Specific courses will be determined by this department and by the student's graduate committee. Students may also complete

CSS 240 and CSS 501 with at least a **B** in each course in lieu of one language.

DEPARTMENT OF GEOLOGY

The Department of Geology participates in programs leading to the Master of Science degree in Geology. A minimum of thirty (30) graduate hours is required, eighteen (18) of which must be in courses numbered above 600. For the Master of Science degree, the student must complete an original research program, submit and defend a thesis to the department; a thesis committee which supervises these activities is established when the student is formally admitted to a degree candidacy. The GRE advanced test in geology is desirable but is not a requirement for admission. No student will be admitted as a regular graduate student for the master's degree in Geology who has a score of less than 1000 on the combined total of Aptitude Section of the **Graduate Record Examinations**, but may be considered for either conditional or non-degree graduate status. (See page 22 of **Bulletin**.)

Students following programs leading to the Master of Science degree in Geology will be required to take a summer field course if they did not have such a course as undergraduates (this stipulation may be waived, upon application, on account of physical disability).

For the Master of Science degree the student must take a minor of twelve (12) hours in a field approved by his committee.

The department has a cooperative arrangement with the Gulf Coast Research Laboratory at Ocean Springs, Mississippi. Courses in marine geological studies may be taken at the Laboratory and are generally taught in the summer.

DEPARTMENT OF MATHEMATICS

The Department of Mathematics offers programs leading to the Master of Science degree with a major in Mathematics.

For all master's degrees, a minimum of thirty (30) semester hours of graduate work is required, eighteen (18) semester hours of which must be in courses numbered above 600. At least fifteen (15) hours of the courses numbered above 600 must be in mathematics. A student who is a resident for less than two semesters must complete a minimum of eighteen (18) semester hours of mathematics courses numbered above 600.

For the Master of Science degree, proficiency in a foreign language is not required. The writing of a thesis in optional with the student's advisory committee.

Before completing nine (9) hours of graduate work the student, with the help of his adviser, should outline his tentative graduate program. As a guide to the student, the courses are grouped into seven areas: topology, analysis, algebra and linear algebra, optimization and numerical analysis, real analysis and probability, combinatorics and graph theory, applied analysis. The student, with the help of his adviser, should obtain a suitable balance in at least three of the seven areas. Details on the courses that will satisfy this requirement may be obtained from the departmental office.

A mathematics seminar is conducted each semester for graduate students in mathematics. Its purpose is to contribute to the student's mathematical development. The seminar is required each semester the student is in residence until three semester hours of seminar have been passed. A maximum of six (6) semester hours credit may be earned for participation in the seminar.

The sequence in advanced calculus should be completed before beginning the programs leading to the Master of Science degree. If not, then it must be included as a part of the program approved by the student's adviser. Only the second course in

this sequence can be included as part of the thirty (30) hour minimum requirement for a master's degree.

A student must satisfy the present undergraduate requirements for a major in Mathematics at the University of Southern Mississippi before beginning a program leading to a master's degree in Mathematics. If the student cannot meet these requirements, he may be admitted to the Graduate School as a conditional graduate student and allowed to take work to fulfill these requirements. The hours required for a graduate degree will be in addition to this prerequisite. It should be emphasized that admission to the Graduate School does not imply acceptance of the student as a candidate for a graduate degree.

Graduate students in Mathematics are required to take a written diagnostic examination during the first week of the semester that the student begins graduate course work in Mathematics. This examination will cover fundamental topics from analysis, linear algebra, abstract algebra, set theory, and logic. It will serve to identify the student's level of mathematical maturity, and the results will be used to determine any deficiencies which must be removed before the student is admitted to candidacy for a master's degree in Mathematics.

Candidates for the Master of Science degree will take both oral and written comprehensive examinations not later than the last week of the last semester of residence on dates arranged by the student with the student's adviser and the chairman of the Department of Mathematics.

No student will be permitted to select a thesis topic until he has been admitted to candidacy for a master's degree. The thesis in Mathematics must conform to University regulations. Four copies of the candidate's thesis are required to be distributed as follows: two copies to the Dean of the Graduate School, one copy to the chairman of the Department of Mathematics, and one copy to the student's major professor.

DEPARTMENT OF MEDICAL TECHNOLOGY

Admission

The applicant must hold a baccalaureate degree from an accredited college or university, possess certification by a recognized national certifying agency, and have a minimum of two years experience in clinical laboratory science. In addition to the entrance requirements set forth by the Graduate School of the University of Southern Mississippi, the applicant must obtain a combined score of 800 or above on the aptitude sections of the **Graduate Record Examinations**. This examination may be taken after the student has enrolled in the program.

MASTER'S DEGREE PROGRAM

The length of time for completion of the program requirements is four semesters and two summer terms (twenty-four months). Upon successful completion of the program, the student will be awarded the Master of Science degree in Medical Technology. Students entering the program must write a thesis.

The definition of a full-time student in the University of Southern Mississippi Graduate **Bulletin** is a student who is taking a minimum of 12 semester hours. The definition as stated will be applied in this program.

The first year and six months as a full-time student will be spent at the Hattiesburg Campus completing course work and thesis research. A pre-service experience will be a part of the program of study during the last six months. Upon successful completion of the first 18 months of study, all students will be required to spend six months in one of three ways.

1. Obtaining teaching experience by participating in Phase I of the department's teaching program for senior students. This will be under the direction of the department chairman. Thesis requirements for those working on an education related problem will be completed during this time.
2. Completing a residency at an affiliated hospital under the direction of the Chief Technologist. A thesis problem related to administration will be completed.
3. Completing required research under the direction of an assigned professor for those pursuing a major emphasis in an area other than education or administration. A related thesis will be completed during this time.

At some time during the pre-service experience the student will be required to rotate briefly through the major divisions of one affiliated hospital. This will afford the student the opportunity to obtain a better concept of the total health care delivery system.

Master of Science Degree in Medical Technology

The following is a list of the courses required of all candidates. Since a student may take from a minimum of twelve (12) hours to a maximum of sixteen (16) hours each semester ample opportunity is available for the student to take some special electives as well as some desired liberal arts courses.

	Hours
CHE 521, 527-L*, 522, 528-L*, 541	10
MIC 742, 743	8
GEN 731	4

***Optional**

The remainder of the required thirty-eight (38) hours of work can be completed by either of three options.

- I. Complete the following fifteen hours of education courses.

	Hours
ADE 576, 607	6
REF 619, 632, 735	9

- II. Complete the following fifteen hours of administrative courses.

	Hours
MGT 572, 625, 630, 660, 665	15

- III. Complete fifteen hours of course work in a science area such as biochemistry, computer science, genetics, immunohematology, immunology, or microbiology.

DEPARTMENT OF MICROBIOLOGY

Any student having successfully completed a Bachelor of Science or Bachelor of Arts degree in any of the biological or physical sciences, who demonstrates a minimum score of 900 on the Aptitude Section of the **Graduate Record Examination**, who has a grade point average of at least 3.0 in the physical or biological sciences, and who meet the requirements set forth by the Graduate School of the University of Southern Mississippi is eligible to pursue a program leading toward the Master of Science degree in the Department of Microbiology. The Department of Microbiology endeavors to prepare students for teaching and/or research positions in industrial and medical microbiology, genetics, virology, and immunology.

MASTER'S DEGREE PROGRAM

During the first semester of graduate work, the choice of the field of study and the selection of a supervisory professor shall be made by the student with the consent

of the professor. A minimum of thirty (30) graduate hours is required. An acceptable problem in research, which culminates in the preparation of a thesis, must be completed. The student must also pass a written and/or oral comprehensive examination.

EMPHASIS IN MICROBIOLOGY

(Doctoral Level)

For information about this program see page 124, Department of Biology.

Master of Science in Food Science and Technology

The Food Science and Technology Program seeks to train students in the master's degree program for industrial positions and further academic training in Food Science and Technology. In addition to the entrance requirements set forth by the Graduate School of the University of Southern Mississippi, the applicant must score not less than 800 on the Aptitude Section of the **Graduate Records Examination**. Prior training and experience in food science is desirable, and a background in general sciences is essential. Courses supporting a master's degree program may be in administration, biochemistry, chemistry, marketing, microbiology, or nutrition.

INSTITUTE OF GENETICS

The Institute of Genetics participates in programs through the Department of Microbiology leading to the Master of Science degree with an emphasis in genetics. Requirements for degrees are outlined under the Department of Microbiology. Information pertaining to an emphasis in genetics at the doctoral level is found under the Department of Biology.

DEPARTMENT OF PHYSICS

The Department of Physics offers a program leading to the Master of Science degree. A minimum of thirty (30) graduate hours is required. Research areas from which a thesis may be chosen include magnetic resonance, atomic collisions, viscous fluid flow, x-ray crystallography, and mass spectrometry.

The prospective beginning graduate student should have completed mathematics through differential equations, and, in addition to introductory physics, courses in mechanics, electricity and magnetism, modern physics and optics. Students with inadequate preparation may be admitted but will be expected to take some make-up courses. Students who plan to do graduate work are expected to take the advanced physics portion of the **Graduate Record Examinations**.

DEPARTMENT OF POLYMER SCIENCE

MASTER'S DEGREE PROGRAM

The Department of Polymer Science offers a Master of Science degree for which a minimum of thirty (30) graduate hours in courses numbered above 600 is required. In addition an original research problem must be completed, terminated with a written thesis.

DOCTOR OF PHILOSOPHY PROGRAM

The Department of Polymer Science offers the Doctor of Philosophy degree for which the general requirements are listed in another section of this **Bulletin**.

A list of additional departmental requirements is available from the chairman. This degree is conferred only in recognition of excellence in research and scholarship.

DEPARTMENT OF SCIENCE EDUCATION

The Department of Science Education, recognizing the increased emphasis on the art of science teaching and the additional opportunities for individuals with advanced training in these arts, provides a program for the Master of Education, Master of Science, Specialist's, Doctor of Philosophy, and Doctor of Education degrees in Science Education.

Any student who has successfully completed a Bachelor of Science or Bachelor of Arts degree in any area of science or combination of sciences, or has an equivalent academic preparation in the sciences, who demonstrates a minimum score on the aptitude section of the GRE of 750 for a master's, 800 for a specialist's, and 850 for the doctoral degrees, who has a grade point average of at least 3.0 for a master's and 3.5 for a specialist's, and who meets the requirements set forth by the Graduate School of the University of Southern Mississippi is eligible to pursue a program in Science Education. A student who does not meet all the above requirements may be admitted conditionally.

In addition to the general requirements and procedures pertaining to graduate degrees as outlined previously in this **Bulletin**, the following requirements must be fulfilled.

MASTER'S PROGRAM

1. Hold A certification.
 - (a) If the student does not hold A certification he will be expected to enroll in courses necessary to complete this deficiency
 - (b) These courses will not satisfy requirements for the master's degree.
2. Completion of a minimum of thirty-four (34) semester hours of graduate work.
 - (a) A minimum of fifteen (15) semester hours in a specific science—biology, chemistry, earth and environmental sciences, or physics.
 - (b) Three (3) semester hours in a related science.
 - (c) Three (3) semester hours in a professional education area (to be determined by the major adviser).
 - (d) Thirteen (13) semester hours (four (4) courses and one (1) seminar) from the Department of Science Education—(maximum of three (3) semester hours of special problems for degree requirement).

A thesis carrying six semester hours is optional and would substitute for two courses in Science Education. The total program with thesis requires thirty-four (34) semester hours graduate credit. The thesis may involve research in a particular science or research in science education.

SPECIALIST'S DEGREE PROGRAM

1. Complete thirty (30) semester hours of graduate course work beyond the master's level and complete a thesis of six (6) semester hours.
2. Complete minimum of fifteen (15) semester hours in a specific science—biology, chemistry, earth and environmental sciences, and physics.
3. Complete three (3) semester hours of work in professional education.
4. Complete twelve (12) semester hours in science education excluding the thesis.
5. Demonstrate competence in thesis writing by selecting a topic, doing research, and reporting the findings.

DOCTORAL PROGRAM

1. Possess master's degree and hold a AA certification in one of the sciences or the equivalency thereof.
2. Complete successfully an additional forty-eight (48) semester hours of graduate work beyond the master's degree excluding the dissertation which will include:
 - (a) Fifteen (15) semester hours in a specific science (minimum of)
 - (b) Three (3) semester hours in a related science (minimum of)
 - (c) Three (3) semester hours in professional education (minimum of)
 - (d) Eighteen (18) semester hours in science education
 - (e) Nine (9) semester hours of electives (five (5) courses and three (3) seminars)—science education, specific science, or professional education.
3. Complete an acceptable dissertation.

Additional requirements include demonstrated proficiency in educational statistics and independent research. Research, culminating in a dissertation, may deal with a program in the student's science speciality or a problem in science education. However, the research problem must address educational needs related to the teaching of science.

During a student's first or second quarter of enrollment, the department will require a written and/or oral qualifying examination. This examination is designed to assess both the student's fitness to pursue doctoral work and to assist the committee members in planning his doctoral program. A written and/or oral comprehensive examination must be taken at or near the completion of the candidate's course work. Upon acceptance of the dissertation by the candidate's committee and at least four weeks prior to graduation, a final oral examination in defense of the candidate's dissertation will be administered. The Department of Science Education furthermore requires that the candidate's research be acceptable for publication in journals in his field.

In addition to an evaluation of the student's record, tests and examinations are used for diagnostic purposes in planning programs. **The Graduate Record Examinations** verbal and quantitative score should be submitted with the application for advanced graduate study.

GRADUATE SCHOOL OF SOCIAL WORK

Graduate Degrees

1980-1981

Department	Major	Degree
Social Work	Social Work	Master of Social Work

GRADUATE SCHOOL OF SOCIAL WORK

Shirley J. Jones, Dean

The Graduate School of Social Work has met the educational requirements of the Council on Social Work Education and has, therefore, a fully accredited program at the master's degree level (MSW).

The School of Social Work curriculum emphasizes a foundation of knowledge, a core of basic skills, and advanced practice skills and knowledge that will prepare the student to practice in a variety of service delivery settings utilized in behalf of individuals, groups, families, and communities. The advanced elective courses offer the students a chance to choose a more narrowly focused program emphasizing a special interest in a specific area. These areas are Mental Health/Mental Retardation, Family and Children's Services, Services to Older Persons, Social Welfare Services to the Poor, and Health.

The human services agencies throughout the state are potential employers of those students who successfully complete the program for the MSW degree.

Graduate students admitted to the Master of Social Work (MSW) program may qualify for the following educational plans:

1. The regular Master of Social Work program requiring four semesters (18 months): fall and spring semesters of two academic years;
OR
2. An accelerated/advanced Master of Social Work program which goes straight through for a minimum of twelve (12) consecutive months for completion; fall and spring semesters and the final summer term. This program is for students who have graduated with a bachelor's degree with a major in social work from an undergraduate social work program. While this program is accelerated in nature, it is designed as an advanced program built upon the expectation of prior basic social work content acquired on the baccalaureate level.

Regular Master of Social Work Program

First year students enroll in the fall semester. Students typically spend two semesters (fall and spring) on campus attending classes and two semesters (fall and spring) in concurrent classroom and block field instruction. Students may be assigned to field practice experiences at various locations within the state. A minimum of sixty (60) credit hours is required for graduation.

Accelerated/Advanced Master of Social Work Program

Students accepted into the accelerated/advanced program enter in the fall semester, which is devoted to classroom work. During the spring semester and the final summer term, classes are continued one day per week with a four (4) day concurrent field practice. Students may be assigned to field practice experiences in various locations within the state. A minimum of forty-five (45) credit hours is required for graduation.

Part-Time Educational Program

The School also offers admission to a part-time educational program designed primarily for practitioners working full-time, in which two semesters of classroom instruction may be completed over an extended period of time (up to five years), with the final two consecutive semesters of concurrent field and classroom instruction being completed as full-time students in residence. Evening courses, offered on several USM campuses in the state, provided part-time social work students addi-

tional educational opportunities. The School has a part-time adviser available at both Jackson and Gulf Park.

Requisites for the MSW Degree

Students must have a **B** grade average in course and field practice.

All required courses must be successfully completed.

A minimum of sixty (60) hours is required for graduation in the regular MSW program; a minimum of forty-five (45) hours is required for graduation in the accelerated/advanced MSW program.

Students have the option of selecting a broadly based program from advanced practice and special emphasis area courses according to their preferences; or they may choose a more narrowly focused program emphasizing a special interest in a specific area. These areas are Mental Health/Mental Retardation, Family and Children's Services, Services to Older Persons, Social Welfare Services to the Poor, and Health. If an emphasis area is selected, certain prescribed courses as determined by the faculty responsible for these specialized areas will be required to fulfill the emphasis.

Admission Requirements

Applicants to the School of Social Work are selected and admitted without discrimination on the basis of race, color, creed, ethnic origin, age, or sex.

- A. Regular students, full-time or part-time, are admitted on the basis of the following factors: a bachelor's degree from an accredited college or university; a minimum undergraduate grade point average (GPA) of 2.75 on a 4.0 scale; a minimum **combined** score of 750 on the **Graduate Record Examinations** (verbal and quantitative parts); academic background; references; and a written personal statement from the student, all of which factors will be evaluated by the Admissions Committee. It is the desire of the School to see each prospective student prior to completion of the admission process. In most cases, a personal or group interview with the student by a faculty member is required to support the application process. The evaluation results of the faculty member will then be submitted to the Admissions Committee.
- B. Students applying for admission to the accelerated/advanced program must meet additional requirements to those listed above; these students must have a bachelor's degree from an undergraduate social work program; must have a GPA of at least 3.0 on a 4.0 scale in the undergraduate social work courses; and an evaluation of the applicant's undergraduate field experience will be included in the educational materials. Preference in admission will be given to those students who have a bachelor's degree from an undergraduate social work program accredited by the Council on Social Work Education and to those students who have had some prior work experience in social service organizations, provided all other criteria are met.
- C. Admission into the School of a student with prior status of "graduate non-degree" is contingent upon a **B** or above average in the graduate social work courses taken prior to admission, in addition to the student meeting the regular admission requirements as listed in Section A above. No more than nine (9) credit hours may be transferred toward the graduate degree from the "non-degree" status; therefore students must apply for and receive admission into the Graduate School of Social Work in order to receive credit for additional course hours.

The School adheres to the University policies with regard to admission of graduate students on a "conditional" basis. **Students with conditional admission are not eligible for the accelerated/advanced program.** The University regulations concerning "conditional admissions" for regular or part-time students are presented elsewhere in the **Graduate Bulletin**.

No application for admission to any program in the School will be considered unless accompanied by a copy of the **Graduate Record Examinations** score (verbal and quantitative) and one copy of a transcript covering at least the final two years of undergraduate study. Applicants for the accelerated/advanced program also must supply course descriptions of undergraduate social work courses taken.

All admission requirements must be **completed by July 1** for fall semester admission. The **Graduate Record Examinations** is given only at specified times during each year; there is a delay of about six (6) weeks before the University receives the student's scores after the GRE is taken: therefore, since GRE scores are required for admission, students should allow sufficient time for the completion of applications. For further information write:

Coordinator of Admissions
Graduate School of Social Work
University of Southern Mississippi
Southern Station, Box 5114
Hattiesburg, Mississippi 39401

UNIVERSITY OF SOUTHERN MISSISSIPPI GULF COAST

Joe E. Holloway, Dean

The University of Southern Mississippi Gulf Coast serves to enable the University of Southern Mississippi to bring its graduate courses and programs to the Mississippi Gulf Coast. All courses and programs are offered through the appropriate departments and colleges on the parent campus in Hattiesburg. All courses may be applied to degrees offered by the University. Most of the policies governing USM Gulf Coast graduate program are identical with those stated elsewhere in this **Bulletin**. Information unique to USM Gulf Coast graduate programs is outlined below.

SCOPE

USM Gulf Coast provides a flexible delivery system designed to react to the educational needs of Coast citizens. Consequently, new courses are added to the schedule as student demand warrants and resources permit. A sufficient number of courses are now being offered so that USM Gulf Coast students may earn their entire master's degree with majors in the following areas: Business Administration, Computer Science, Criminal Justice, Educational Administration and Supervision, Elementary Education, Political Science, Reading, Secondary Education, Special Education, and Telecommunications Management. As the scope of the USM Gulf Coast program broadens in response to student demand, additional areas of specialization will become available. Because USM Gulf Coast offers a broad range of courses, students can obtain master's level courses in areas not mentioned above. Prospective students are invited to contact a USM Gulf Coast adviser in order to discuss course availability in their area of special interest.

Accreditation

As an integral division of the University of Southern Mississippi, USM Gulf Coast is accredited by the Southern Association of Colleges and Schools—Commission on Colleges and the National Council for the Accreditation of Teacher Education.

Admission

USM Gulf Coast graduate admission requirements and procedures are identical with those outlined elsewhere in this **Bulletin**, except that procedures are initiated through the USM Gulf Coast Director of Student Services. In order to facilitate proper advisement and predetermination of admission status, students should furnish transcripts and complete applications for admission at least twenty days prior to registration. A student who is unable to meet this deadline may be provisionally admitted as a non-degree graduate student at registration. However, the University is not in any way committed to continue enrollment, refund fees or tuition, grant grades, or otherwise award credit if all of the required admission forms are not received on time or if the provisional student is found to be ineligible for admission. Transcripts of provisional students must be received by the middle of the term in which they register. Transcripts and completed applications should be sent to the Director of Student Services, USM Gulf Park, Long Beach, MS 39560.

Graduate Residency Requirements

Specialist and doctoral level students are reminded that graduate residency requires intensive full-time study of an individualized nature. In addition, some departments have options to meet specialized needs. These students must have their

degree plans approved in writing in advance by their department chairman prior to course enrollment.

Course Load

Students are permitted to carry nine (9) semester hours per term through the USM Gulf Coast. Credit workshops taken on the Gulf Park Campus will be counted as a part of the nine-hour load.

Gulf Coast area students are also served by a separate unit, the University of Southern Mississippi Jackson County Resident Center. Course offerings and scheduling are coordinated with the USM Regional Campus at Gulf Park and USM-Keesler and students are permitted to enroll concurrently at the three locations.

Fees

All USM Gulf Coast student fees are assessed in accordance with the University's part-time student fee schedule quoted elsewhere in this **Bulletin**. Students who enroll concurrently between USM Hattiesburg and USM Gulf Coast must pay separate fees for the USM Gulf Coast courses.

Calendar

USM Gulf Coast offers four eleven-week terms per year. Holidays follow the same schedule as the Hattiesburg Campus Calendar found elsewhere in this **Bulletin**.

TERM	REGISTRATION
Fall 1980-81	Aug. 26-27, 1980
Winter 1980-81	Nov. 11-12, 1980
Spring 1980-81	Feb. 17-18, 1981
Summer 1980-81	June 2-3, 1981

SPECIAL DEGREE PROGRAM

The Master of Science degree with a major in Telecommunications Management is awarded through the University of Southern Mississippi Gulf Park. Although this program is administered by the Director of the Division of Business Administration for the Regional Campus, it is not a business degree. Rather it is inter-disciplinary, involving departments within the College of Science and Technology of the University in cooperation with the Communications and Electronics Systems Staff Officer Course at Keesler Air Force Base, Biloxi, Mississippi.

The purpose of the program is to provide the managerial and technical knowledge and skills necessary to function at the executive level in the management of technical communications and electronic systems in both military and civilian sectors.

The Telecommunications Management program is open to both military and civilian personnel. Undergraduate preparation in any of a wide variety of areas is acceptable. Admission standards are identical with those of the College of Science and Technology given elsewhere in this **Bulletin**.

Curriculum	Hours
MGT 620, 625	6
GBA 615, 625	6
SCI 650, 651, 652, 653	12
Guided Electives	9
Business Elective	3
Total	36

Guided Electives: The three courses below or other approved MBA courses as determined by the Program Coordinator.

ACC 604, 625, and ECO 604

UNIVERSITY OF SOUTHERN MISSISSIPPI NATCHEZ REGIONAL CAMPUS

Bill W. Gore, Dean

The University of Southern Mississippi Natchez Regional Campus offers graduate degree programs in General Elementary Education, Educational Administration, and selected minor areas of Secondary Education. These programs are offered through the USM Hattiesburg departments with coordinators, advisers, and classes available on a continuing basis at USM-Natchez. Admission policies and curricula are the same as for the Hattiesburg Campus and are listed elsewhere in the appropriate section of the **Bulletin**.

Additionally, the University of Southern Mississippi-Natchez offers the Master of Science in Management degree. The requirements for this degree are listed below.

Master of Science in Management

Louis Parks, Coordinator

The Master of Science in Management is designed to prepare the student for advanced management positions in business, industry, government, or other non-profit organizations. The program covers the broad areas of business fundamentals and includes in-depth study of the area of management. It is offered through evening classes to serve the students of the Natchez commuting area.

Prerequisite courses are principles of accounting, business law, economics principles, financial management, management, marketing, and statistics. The student whose undergraduate degree is in some area other than business administration will have to make up course deficiencies before entering the specific graduate level course for which the undergraduate course is prerequisite. Determination of which prerequisite courses must be completed by each student admitted will be made by the USM-Natchez departmental coordinator.

Admission to the program is in conformance with all rules of the Graduate School. Additionally, before completing the first nine graduate hours the student must score satisfactorily on the **Graduate Management Admission Test (GMAT)**. The minimum GMAT score acceptable is calculated thus: (a) 1,000 points based on the formula: 200 times the grade point average of the last two years of undergraduate study (4.0 scale), plus the GMAT score or (b) for conditional admission, 950 points based on the formula: 200 times the overall undergraduate grade point average plus the GMAT score. In either (a) or (b) above the GMAT must be greater than 400 points. Application for admission must be made through the Director of Admissions, USM-Natchez. Two copies of official transcripts from all colleges previously attended must accompany the application.

The Master of Science in Management degree will be granted to candidates, who (1) meet the general requirements of the Graduate School and the specific admission requirements to this program, (2) complete the curricular requirements herewith outlined, and (3) pass a comprehensive examination, both written and oral, of qualification for business management, covering, at the least, basic fundamentals in management, accounting, economics, finance, marketing, and quantitative techniques.

Curriculum

Course	Hours	Course	Hours
ACC 625	3	FIN 625	3
ECO 620 or MGT 615	3	MKT 625	3
ECO 625	3		

Field emphasis (in management)	12
Electives (in other business, or related, disciplines).	6
	Total: 33

A student with an undergraduate major in accounting, economics, finance, or marketing may be allowed to substitute another course in the same department, if available, for the 625 course in his major.

The program may not include any courses numbered below 500, but it may include up to six hours of 500-level courses.

COURSE DESCRIPTIONS

INDEX OF ABBREVIATIONS FOR FIELDS OF INSTRUCTION

AA	Allied Arts	HHM	Housing and Home Management
AAC	Athletic Administration and Coaching	HIS	History
ACC	Accounting	HON	Honors College
ACT	Architectural Technology	HRA	Hotel and Restaurant Administration
ADE	Adult Education	HSE	Health and Safety Education; see also Athletic Administration and Coaching
AMS	American Studies	HUM	Humanities
ANT	Anthropology	IAD	Institution Administration
AOS	Aerospace Studies	INT	Industrial Technology
APM	Applied Music	IVE	Industrial and Vocational Education
ARE	Art Education	JOU	Journalism
ART	Art	LS	Library Science
AST	Astronomy	MAT	Mathematics
BCT	Building Construction Technology	MED	Music Education
BED	Business Education	MET	Mechanical Technology
BIO	Biology	MFL	Marriage and Family Life
CD	Child Development	MGT	Management
CHE	Chemistry	MIC	Microbiology
CI	Curriculum and Instruction: CIE Elementary CIS Secondary	MKT	Marketing
CJ	Criminal Justice	MS	Military Science
CLT	Comparative Literature	MTC	Medical Technology
COM	Communication	MUS	Music
CPY	Counseling Psychology	NSG	Nursing
CSS	Computer Science and Statistics	PED	Physical Education; see also Athletic Administration and Coaching
CT	Clothing and Textiles	PHI	Philosophy
ECO	Economics	PHY	Physics
EDA	Educational Administration	PS	Political Science
ELT	Electronics Technology	PSC	Polymer Science
ENG	English	PSY	Psychology
EPY	Educational Psychology	REC	Recreation
ESC	Environmental Technology	REF	Research and Foundations
EVD	Environmental Design	REI	Real Estate and Insurance
FIN	Finance	REL	Religion
FL	Foreign Languages	RTF	Radio-Television-Film
FN	Food and Nutrition	SCE	Science Education
FS	Fundamentals of Science	SCI	Science
FSC	Forensic Science	SCM	Speech Communication
FST	Food Science and Technology	SHS	Speech and Hearing Sciences
GBA	General Business Administration	SOC	Sociology
GEN	Genetics	SPE	Special Education
		SWK	Social Work

GHY Geography
 GLY Geology
 HEE Home Economics
 Education

THE Theatre Arts
 THY Therapy

ACCOUNTING (ACC-605)

502. **Advanced Accounting II.** 3 hrs. Prerequisite: ACC 401. An introduction to consolidated financial statements, accounting for fiduciaries, and governmental accounting.

505. **Current Accounting Theory and Research.** 3 hrs. Prerequisites: ACC 330, 401, 402, 409. A study of the accounting literature.

510. **Auditing II.** 3 hrs. An in-depth study of the auditor's attest function with emphasis on current literature and professional qualifying examinations.

520. **Advanced Cost Accounting and Budgeting.** 3 hrs. Prerequisite: ACC 320. The development of accounting data for managerial use.

530. **Federal Income Tax Accounting II.** 3 hrs. Prerequisite: ACC 330. The environment of business as affected by the federal income tax law.

550. **Accounting Systems.** 3 hrs. Prerequisite: ACC 409. A study of the nature and procedure of accounting systems work.

580. **CPA Law Review.** 3 hrs. Prerequisites: GBA 311 and 24 hours of accounting beyond principles.

592. **Research in Accounting Problems.** 1-3 hrs. Prerequisite: Permission of adviser. Individual study of specific topics in accounting.

604. **Financial Accounting Analysis.** 3 hrs. Prerequisite: Graduate standing. An introduction to financial accounting. (May be taken in lieu of Principles of Accounting for those preparing for the MBA degree but may not be applied toward 36 semester hour requirement for the degree. May be used in requirements for MS in Telecommunications Management by those without undergraduate credit in accounting, but only in conjunction with ACC 625.)

605. **Advanced Accounting Theory.** 3 hrs. Prerequisites: 15 hours of accounting above accounting principles. Study of financial accounting literature.

610. **Advanced Problems in Public Accounting.** 3 hrs. Prerequisites: 15 hours of accounting above accounting principles including ACC 409. A study of current topics in public accounting practice.

620. **Advanced Cost Accounting Problems and Controllershship.** 3 hrs. Prerequisites: 15 hours of accounting above accounting principles including ACC 320. A study of cost concepts and controllership function.

625. **Managerial Accounting.** 3 hrs. Prerequisite: Principles of accounting. A study of the potential managerial uses of accounting information. (Not to be taken by accounting emphasis students.)

630. **Tax Planning and Research.** 3 hrs. Prerequisites: ACC 330 and 430 or equivalent. Tax planning and research.

640. **Contemporary Problems in Accounting.** 3 hrs. Prerequisite: ACC 405 and 409. CPA problems review.

692. **Special Problems in Accounting.** 3 hrs. Individual study of specific topics in accounting.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

ADULT EDUCATION (ADE-110)

540. Methods and Materials in Adult Education. 3 hrs. A course in method and format of instructional materials for adults with emphasis on self-instructional techniques.

541. Foundations of Reading Instruction for the Adult. 3 hrs. This course involves an examination of the basis of reading instruction for the nonliterate adult.

542. Methods and Materials for Teaching Adults to Read. 3 hrs. Instructional and diagnostic materials and methods for dealing with functionally illiterate adults.

545. Teaching the Disadvantaged Adult. 3 hrs. A study of the educational problems of culturally deprived and handicapped adults in terms of programs and procedures found to be successful.

576. Learning in Adult Education. 3 hrs. A study of learning in adulthood, and related to a range of educational programs.

590. Special Problems in Adult Education. 1-3 hrs. Special areas of interest arranged for an individual or a group with common interests.

601. Principles of Adult Education. 3 hrs. A survey of the history, philosophies, form, structure, and current developments in the field of adult education.

602. Organization and Administration of Adult Education. 3 hrs. Includes the design, implementation, and financing of programs for adults.

607. Program Planning and Curriculum Development in Adult Education. 3 hrs. The design of programs and courses of study related to a wide variety of adult education agencies.

692. Special Problems I, II, III. 1-3 hrs. A study to develop knowledge and facility in a field of special interest to the student. Requires preparation of a scholarly paper under supervision of a graduate professor.

701. Delivery Systems for Adult Education. 3 hrs. Prerequisites: ADE 601 and ADE 607. Introduction and orientation to a variety of organizations and agencies responsible for conducting adult education programs.

741. Assessment in Adult Education. 3 hrs. Prerequisite: ADE 576, REF 601, or permission of instructor. Explore, develop, and evaluate various assessment methods and strategies used in adult education.

750. Education and the Older Adult. 3 hrs. A study of the elderly adult and the implications of those characteristics for adult education programs.

792. Special Problems. 3 hrs.

794. Field Problems in Adult Education I, II, III. 1-3 hrs. arr. A project dealing with a specific problem in an adult education agency. Registration must be approved by student's major professor and departmental chairman.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 6 hrs. A field study of thesis type research study representing the major research component of the specialist's degree.

889. Seminar in Adult Education. 1 hr. (Max. 3 hrs.) Seminar required for adult education doctoral students in residence. Emphasizing current issues in adult education selected by students in consultation with faculty.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

ALLIED ARTS (AA-655)

600. **Aesthetics in the Arts.** 3 hrs. Emphasis is placed upon an analysis of artistic expression and the affective quality of experience with the fine arts.

ANTHROPOLOGY (ANT-286)

SOC 560. **Methods of Social Research.** 3 hrs. May also be offered for credit as an anthropology course.

SOC 681. **Departmental Seminar I.** 1 hr. May also be offered for credit in anthropology.

SOC 682. **Departmental Seminar II.** 1 hr. May also be offered for credit in anthropology.

SOC 683. **Departmental Seminar III.** 1 hr. May also be offered for credit in anthropology.

501. **Primate Behavior.** 3 hrs. Study of nonhuman Old and New World primates with regard to growth, behavior, social organization, and ecology.

503. **Prehistoric Archaeology.** 3 hrs. A survey of the archaeology of the Old World.

504. **Mediterranean Archaeology.** 3 hrs. The archaeology of complex societies with particular reference to the general area.

511. **Foundations of Indo-European Thought and Culture.** 3 hrs. A comparative approach to the background of western culture, utilizing linguistics, mythology, and archaeology.

512. **Mythology and Folklore.** 3 hrs. The utilization of folklore and mythological data in anthropological research.

513. **History of Anthropological Theory.** 3 hrs. A general survey of historical anthropological thought and of the major contemporary school of anthropological theory.

515. **Archeology Field Methods.** 3 hrs. Methods of fieldwork through participation in organized field projects. Permission of instructor required.

520. **Culture and Ethnicity.** 3 hrs. An analysis of culture and ethnicity with special reference to the problem of modernization.

526. **Topics in Anthropology.** 3 hrs. Variable content. May be repeated three times in separate topical offerings for a total of 9 hours.

534. **Primitive Religion.** 3 hrs. Beliefs and rituals in primitive society; magic, witch-craft and curing; types of primitive religion.

605. **Psychological Anthropology.** 3 hrs. The evolution of the hominid brain and a cross-cultural analysis of basic personality formation in primitive societies.

606. **Economic Anthropology.** 3 hrs. The evolution of economic systems and the relative role of economic forces in the determination of social change.

607. **Applied Anthropology.** 3 hrs. The application of anthropology to the solution of contemporary social and cultural problems.

611. **Seminar in Archeology.** 3 hrs. Research and tutorial in general archeology.

612. **Seminar in Ethnology.** 3 hrs. Individually designed and supervised studies in ethnology.

613. **Seminar in Physical Anthropology.** 3 hrs. Individually designed and supervised studies in physical anthropology. Seminar discussion on methodology and findings.

620. **Seminar in Research Methods I.** 3 hrs. Logic and methods of anthropological research, emphasizing collection of a suitable body of data.

621. **Seminar in Research Methods II.** 3 hrs. Logic and methods of anthropological research, emphasizing analysis of data.

692. **Special Problems.** 1-3 hrs.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis, and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

792. **Special Study Projects in Anthropology.** 1-6 hrs. Special projects in reading, survey, or research in anthropology.

ARCHITECTURAL TECHNOLOGY (ACT-392)

592. **Special Problems.** 1-3 hrs. Prerequisite: Senior standing and approval of faculty adviser.

ART (ART-660)

513. **Crafts II.** 3 hrs. The creation and design of jewelry.

514. **Crafts III.** 3 hrs. The creation of surface designs for fabrics.

531. **Ancient Art.** 3 hrs. 4000 B.C. to *circa* 600 A.D.

532. **Medieval Art.** 3 hrs. 600 A.D. to *circa* 1300 A.D.

533. **Renaissance Art.** 3 hrs. 1400 AD to 1600 A.D.

534. **Baroque and Rococo Art.** 3 hrs. 17th and 18th centuries.

535. **Nineteenth Century Art.** 3 hrs.

536. **Twentieth Century Art.** 3 hrs.

600. **Studio Foundations.** 3 hrs. A review, through studio problems, of some fundamental problems of plastic expression. Hours earned may not be used to fulfill degree requirements.

601. **Drawing Studio.** 3 hrs.

602. **Drawing Studio.** 3 hrs.

603. **Drawing Studio.** 3 hrs.

610. **Crafts: Jewelry Design for Teachers.** 3 hrs. The study of visual forms as pertaining to the jewelry crafts.

615. **Trends in Current Plastic Expression.** 3 hrs. A course designed to keep the student abreast of current trends in the plastic arts.

620. **Adapting Selected Current Art Trends to School Practice.** 3 hrs. Current art trends are identified and selections of them are developed in terms of philosophies, practitioners, background, and techniques.

621. **Painting Studio.** 3 hrs.

622. **Painting Studio.** 3 hrs.

623. **Painting Studio.** 3 hrs.

651. **Ceramics Studio.** 3-9 hrs.

701. **Drawing Studio.** 3 hrs.

702. **Drawing Studio.** 3 hrs.

703. **Drawing Studio.** 3 hrs.

- 721. **Painting Studio.** 3 hrs.
- 722. **Painting Studio.** 3 hrs.
- 723. **Painting Studio.** 3 hrs.
- 760. **Seminar.** 1 hr.
- 761. **Seminar.** 1 hr.
- 762. **Seminar.** 1 hr.
- 799. **Creative Project.** 6 hrs.

ART EDUCATION (ARE-665)

- 600. **Art Education Theory.** 2 hrs. A comprehensive survey of Art Education trends and philosophies.
- 601. **Introduction to Research in Art Education.** 3 hrs. A study of current research and research techniques in the area; includes the compilation of bibliographic material and the organization of research projects.
- 602. **Art Techniques and Materials for Teachers.** 3 hrs. A comprehensive survey of teaching techniques emphasizing the pedagogical potential and limitation of plastic media.
- 603. **Characteristics of Visual Relationships for Teachers.** 3 hrs. A course dealing with the teaching of the visual characteristics and arrangement of visual relationships.
- 604. **Teaching the Exceptional Student Contemporary Processes.** 3 hrs. A course devoted to the pedagogical potential of contemporary processes for use with exceptional students.
- 605. **Techniques of Dissemination of Student Art Work.** 3 hrs. Techniques of advanced pedagogy in the selection, display, and showing of student work.
- 606. **History and Philosophy of Art Education.** 3 hrs. An integrative, historical, and philosophical study of Art Education.
- 616. **Advanced Art Seminar for Teachers in Elementary Education.** 3 hrs. An advanced study of the scope and sequence of art education curricula. The coordination of art programs with sequential studies will be stressed.
- 625. **Supervision of Art Education Programs.** 3 hrs. A study of the problems involved in the supervision of public school art programs in grades K through twelve.
- 626. **Curriculum and Instruction in Art Education.** 3 hrs. A study of the art curricula and instructional programs in the public schools in grades K through twelve.
- 691. **Research in Art Education.** 1-9 hrs. Prerequisite: Approval of the major professor.
- 692. **Special Problems in Art Education I, II, III.** 1-3 hrs. each.
- 697. **Independent Study and Research.** 1-12 hrs. Not to be counted as credit toward a degree. Students who are not in residence but are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
- 698. **Thesis.** 1-6 hrs. for a total of 6 hrs. A conventional thesis.

BIOLOGY (BIO-305)

- 501. **History of Biology.** 3 hrs. Lectures and papers concerning the development of biological sciences.

504. **Herpetology.** 2 hrs. Collection, preservation, identification, and distribution of amphibians and reptiles. Field trips when possible.

504-L. **Herpetology Laboratory.** 1 hr.

505. **Pharmacology.** 3 hrs. Prerequisites: Vertebrate biology and organic chemistry. The response of living organisms to drugs.

510. **Electron Microscopy.** 1 hr. Theory and use of the electron microscope and associated instrumentation, and darkroom techniques.

510-L. **Electron Microscopy Laboratory.** 2 hrs.

511. **Histology.** 3 hrs. Prerequisite: 12 hours of biology. Microscopic anatomy of mammalian organ systems.

511-L. **Histology Laboratory.** 1 hr.

512. **Microtechnique.** 1 hr. Techniques for sectioning, mounting, and staining tissue and making whole mounts.

512-L. **Microtechnique Laboratory.** 2 hrs.

515. **Pathobiology.** 2 hrs. Prerequisite: BIO 411 or 511. Principles of histopathology of vertebrates and invertebrates.

515-L. **Pathobiology Laboratory.** 1 hr.

520. **Embryology.** 2 hrs. Maturation, fertilization, cleavage, histogenesis, and organogenesis.

520-L. **Embryology Laboratory.** 2 hrs.

522. **Advanced Embryology.** 2 hrs. Prerequisite: BIO 420 or 520. Factors which activate or regulate developmental processes.

522-L. **Advanced Embryology Laboratory.** 1 hr.

523. **Protozoology.** 2 hrs. Introduction to parasitic and free-living protozoa.

523-L. **Protozoology Laboratory.** 1 hr.

524. **Human Parasitology.** 3 hrs. Life histories, medical significance, and diagnosis of helminths and protozoa parasitic in man.

524-L. **Human Parasitology Laboratory.** 1 hr.

526. **Medical Entomology.** 2 hrs. Prerequisite: Consent of instructor. Arthropod vectors and agents of disease.

526-L. **Medical Entomology Laboratory.** 1 hr.

528. **Environmental Physiology.** 2 hrs. Physiological adaptations enabling animals to meet environmental challenges.

528-L. **Environmental Physiology Laboratory.** 1 hr.

529. **Invertebrate Physiology.** 2 hrs. A functional approach to the major invertebrate phyla.

529-L. **Invertebrate Physiology Laboratory.** 1 hr.

530. **Mammalian Physiology.** 3 hrs. The functions of mammalian systems; interrelationships and regulation are emphasized.

530-L. **Mammalian Physiology Laboratory.** 1 hr.

532. **Comparative Animal Physiology.** 3 hrs. Organismic function and the adaptations which characterize major animal groups.

532-L. **Comparative Animal Physiology Laboratory.** 1 hr.

534. **Endocrinology.** 3 hrs. Prerequisite: Consent of instructor. Survey of the endocrine system and its regulation of physiological processes.

535. **Ethology.** 3 hrs. Classical and current concepts of animal behavior including individual and social behavioral patterns.

536. **Invertebrate Zoology I.** 2 hrs. Survey of Invertebrate Phyla Protozoa to Annelida.

536-L. **Invertebrate Zoology I Laboratory.** 1 hr.

537. **Invertebrate Zoology II.** 2 hrs. Prerequisite: BIO 436 or 536. Survey of Invertebrate Phyla through Hemichordata.

537-L. **Invertebrate Zoology II Laboratory.** 1 hr.

538. **Entomology.** 2 hrs. Structural adaptations, classification, life histories and habits, and the economic importance of insects.

538-L. **Entomology Laboratory.** 1 hr.

539. **Arachnida Biology.** 2 hrs. Biology, morphology, and classification of the arachnids.

539-L. **Arachnida Biology Laboratory.** 1 hr.

540. **Ichthyology.** 2 hrs. Collection, preservation, and identification of local fresh water fishes and fish-like vertebrates.

540-L. **Ichthyology Laboratory.** 1 hr.

541. **Ornithology.** 2 hrs. Prerequisite: BIO 320 recommended. Morphology, taxonomy, life history, distribution, evolution, and adaptations of birds.

541-L. **Ornithology Laboratory.** 1 hr.

542. **Mammalogy.** 2 hrs. Prerequisite: BIO 320 recommended. Morphology, taxonomy, life history, distribution, evolution, and adaptations of mammals.

542-L. **Mammalogy Laboratory.** 1 hr.

543. **Principles of Nomenclature.** 3 hrs. Prerequisite: Consent of instructor. Discussions and problems in biological nomenclature.

544. **Biology of Fishes.** 2 hrs. Prerequisite: Consent of instructor. Systematics and ecology of fishes.

544-L. **Biology of Fishes Laboratory.** 1 hr.

545. **Introduction to Fishery Science.** 2 hrs. A survey of the biology, management, and potential yield of fish populations.

545-L. **Introduction to Fishery Science Laboratory.** 1 hr.

548. **Introductory Mycology.** 2 hrs. Prerequisite: Consent of instructor. Taxonomy, physiology, and biochemistry of fungi.

548-L. **Introductory Mycology Laboratory.** 1 hr.

549. **Introductory Phycology.** 2 hrs. Prerequisite: Consent of instructor. Taxonomy, physiology, and biochemistry of the algae.

549-L. **Introductory Phycology Laboratory.** 1 hr.

550. **Plant Anatomy.** 2 hrs. A study of the anatomy of vascular plants.

550-L. **Plant Anatomy Laboratory.** 1 hr.

551. **Bryophytes and Vascular Plants.** 3 hrs. Life cycles, evolution, and morphology of bryophytes and vascular plants.

551-L. **Bryophytes and Vascular Plants Laboratory.** 1 hr.

553. **Aquatic and Marsh Plants.** 2 hrs. Collection, identification, and ecology of plants of fresh and brackish water.

553-L. **Aquatic and Marsh Plants Laboratory.** 1 hr.

554. **Plant Physiology.** 2 hrs. Prerequisite: Organic chemistry recommended. The basic physiological processes of green plants.

554-L. **Plant Physiology Laboratory.** 1 hr.

555. **Economic Botany.** 2 hrs. Origin, distribution, and significance of plants most important to man.

555-L. **Economic Botany Laboratory.** 1 hr.

557. **Taxonomy of Local Flora.** 2 hrs. The classification of the local flora.

557-L. **Taxonomy of Local Flora Laboratory.** 1 hr.

558. **Dendrology.** 2 hrs. The taxonomic and ecological characteristics, and the distribution of trees.

558-L. **Dendrology Laboratory.** 1 hr.

560. **Zoogeography.** 3 hrs. Prerequisite: Consent of instructor. A descriptive and analytical study of the distribution of animals.

561. **Ecology.** 2 hrs. Prerequisite: Consent of instructor. Interrelationships of organisms to their environment.

561-L. **Ecology Laboratory.** 1 hr.

562. **Population and Community Ecology.** 2 hrs. Collection, analysis, and interpretation of data on natural populations and communities.

562-L. **Population and Community Ecology Laboratory.** 1 hr.

565. **Freshwater Biology.** 1 hr. Prerequisite: Consent of instructor. Collection, identification, and ecology of aquatic organisms significant to water quality.

565-L. **Freshwater Biology Laboratory.** 2 hrs.

566. **Limnology.** 2 hrs. Prerequisite: Consent of instructor. The physical, chemical, and biological conditions in lakes, ponds, and streams.

566-L. **Limnology Laboratory.** 1 hr.

567. **Introduction to Biological Oceanography.** 2 hrs. Topography, bottom sediments, and characteristics of sea water.

567-L. **Introduction to Biological Oceanography Laboratory.** 1 hr.

570. **Natural History of Infectious Diseases.** 3 hrs. A study of infectious diseases and their effect on man.

572. **Natural History of Animals.** 1 hr. Prerequisite: Consent of instructor. Life histories of animals. Designed for teachers.

572-L. **Natural History of Animals Laboratory.** 2 hrs.

573. **Natural History of Plants.** 1 hr. Prerequisite: Consent of instructor. Life histories of plants. Designed for teachers.

573-L. **Natural History of Plants Laboratory.** 2 hrs.

575. **Plant Ecology.** 2 hrs. Prerequisite: Advanced standing in botany. Relationship of plants to their environment.

575-L. **Plant Ecology Laboratory.** 1 hr.

593. **Field Biology.** 2-6 hrs. arr. Ecological and taxonomic studies. Offered between semesters as 4- to 12-day field trips.

638. **Aquatic Insect Ecology.** 2 hrs. Prerequisites: BIO 438, 461, 465.

638-L. **Aquatic Insect Ecology Laboratory.** 1 hr.

692. **Biological Problems.** 1-6 hrs. Designed for majors with a need for certain basic techniques for research.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but are working on a thesis and using University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

703. **Advanced Botany.** 2 hrs. The general physiology and ecology of seed plants.

703-L. **Advanced Botany Laboratory.** 1 hr.

704. **Biological Photography.** 2 hrs. Techniques of biological photography.

705. **Analytical Methods in Biological Research.** 2 hrs. Prerequisite: Consent of instructor. Special techniques of data gathering and interpretation.

705-L. **Analytical Methods in Biological Research Laboratory.** 1 hr.

716. **Cell Ultrastructure.** 3 hrs. Prerequisite: Permission of instructor. Structure and function of cells and cell organelles at the sub-cellular level.

717. **Techniques in Scanning Electron Microscopy.** 2 hrs. Operation, specimen preparation, and x-ray spectroscopy.

718. **Cytochemical Techniques.** 2 hrs. Prerequisite: BIO 410. Cytochemical characterization of biological significant compounds at microscopic levels.

718-L. **Cytochemical Techniques Laboratory.** 1 hr.

721. **Advanced Herpetology.** 2 hrs. Systematics, natural history, distribution, and economic importance of reptiles and amphibians.

721-L. **Advanced Herpetology Laboratory.** 1 hr.

727. **Speciation.** 3 hrs. Origin and species of evolution.

728. **Planktology.** 2 hrs. Prerequisite: Permission of instructor. Morphological adaptations and life histories of plankton.

728-L. **Planktology Laboratory.** 1 hr.

730. **Helminthology.** 3 hrs. Prerequisite: Consent of instructor. Readings and discussions of selected papers on helminthology.

731. **Physiology of Marine Animals.** 3 hrs. The environmental physiology of marine animals.

732. **Seminar in Animal Behavior.** 2 hrs. Special topics in ethology, in areas of individual interest.

733. **Seminar in Physiology.** 2 hrs. Special topics in physiology in areas of individual interest.

760. **Topics in Marine Biology.** 2 hrs. Special topics in marine physiology and biochemistry.

763. **Fisheries Biology.** 2 hrs. Prerequisites: BIO 440 or 540, and BIO 466 or 566 highly recommended. Ecology and conservation of fishes.

763-L. **Fisheries Biology Laboratory.** 1 hr.

765. **Biological Oceanography.** 2 hrs. Prerequisites: BIO 462 or 562. The sea as a biological environment.

765-L. **Biological Oceanography Laboratory.** 1 hr.

767. **Marine Ecology.** 2 hrs. Prerequisite: BIO 462 or 562. The marine environment and the ecology of marine organisms.

767-L. **Marine Ecology Laboratory.** 1 hr.

768. **Aquaculture.** 2 hrs. Prerequisite: Permission of instructor. Production of aquatic organisms in natural and artificial environment.

768-L. **Aquaculture Laboratory.** 1 hr.

789. **Biology Seminar.** 1 hr. The presentation of current concepts in special areas of individual interest.

791. **Research in Biology.** 1-9 hrs. Prerequisite: Approval of the major professor.

792. **Special Problems.** 2-6 hrs.

793. **Research in Zoology.** 1-6 hrs.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but are working on a dissertation and using University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

**COURSES TAUGHT AT THE GULF COAST RESEARCH LABORATORY
IN OCEAN SPRINGS BY THE GULF COAST
RESEARCH LABORATORY STAFF**

581. **Marine Vertebrate Zoology.** 6 hrs. Lecture and laboratory survey of marine chordates, including fishes, reptiles, mammals, and shore birds.

583. **Marine Invertebrate Zoology.** 6 hrs. Morphology, distribution and ecology of the phyla from Protozoa through Protochordates.

585. **Parasites of Marine Animals.** 6 hrs. Prerequisite: Permission of instructor. Emphasis on morphology, taxonomy, life histories, and host-parasite relationships.

586. **Salt Marsh Ecology.** 4 hrs. The botanical aspects of local marshes; includes plant identification, composition, and structure.

587. **Marine Aquaculture.** 6 hrs. Problems and procedures relating to the culture of commercially important crustaceans, fish, and mollusks.

589. **Marine Botany.** 6 hrs. Prerequisites: General botany and plant taxonomy. A survey of the principal groups of marine algae.

781. **Marine Fisheries Management.** 6 hrs. Prerequisite: Statistics recommended. A statistical review of the world fisheries.

783. **Biological Electron Microscopy I.** 3 hrs. An introduction to the fundamentals of electron microscopy.

784. **Biological Electron Microscopy II.** 3 hrs. Prerequisite: BIO 783. Special techniques, operation, and maintenance of an electron microscope.

785. **Marine Microbiology.** 5 hrs. Prerequisites: General microbiology/or consent of instructor. Microbial flora of representative environments.

787. **Research in Marine Biology.** 2-6 hrs.

BUSINESS EDUCATION (BED-105)

551. **Project Method in Distributive Education.** 3 hrs. Project; individualized instructional materials; laboratory activities; evaluation; and research.

552. **History and Philosophy of Vocational Education.** 3 hrs. For Business and Distributive Education Teachers Only. History, concepts, trends, occupations, employment opportunities, procedures, and techniques.

553. **Techniques of Coordination.** 3 hrs. Techniques and procedures used in coordinating office occupations programs.

554. **Methods and Materials in Teaching Distributive Education.** 3 hrs. Prin-

ciples, concepts, program plans, curricula, methods and materials, activities, research, and evaluation.

555. Organization and Administration of Distributive Education. 3 hrs. Basic problems, objectives, and characteristics of DE programs as applied in their development.

560. Office Management. 3 hrs. Principles of management, organization and supervision, data processing, layout, machines, personnel, forms, reports and services.

575. Legal Secretaryship. 3 hrs. Prerequisite: BED 305 and 310 or equivalent. A course stressing the professional aspects of legal secretarial practices and procedures.

576. Medical Office Procedures and Records Management. 3 hrs. Prerequisite: BED 102 or equivalent. Emphasis on the professional aspects of the work of a medical secretary.

577. Medical Transcription. 3 hrs. Prerequisite: BED 102 or equivalent. Emphasis on medical terminology, records, forms, and letters, with limited transcription.

578. Advanced Medical Transcription. 3 hrs. Prerequisite: BED 577. Emphasis on additional medical terminology, with increased emphasis on transcription.

579. Review for the Certified Professional Secretary Examination. 3 hrs. Prerequisites: Typewriting and shorthand skills. Preparation for CPS Examination.

580. Research and Report Writing. 3 hrs. Concepts and methods of business research and style; problems in researching and reporting business data in written form.

604. Foundations in Business Education. 3 hrs. Examination and analysis of the history and philosophy of business education.

608. Curriculums in Business Education. 3 hrs. Factors influencing curriculum construction; content organization, instructional materials, and techniques.

651. Principles of Business Education. 3 hrs. Junior high through university programs; guidance; qualifications and professional activities of teachers; and public relations.

652. Seminar in Business Education. 3 hrs. An intensive study of specific problems in business education, and a survey of literature pertaining to the problems.

653. Improvement of Instruction in Bookkeeping and Related Basic Skills. 3 hrs. Methodology; instructional materials; evaluation; review of significant research.

654. Improvement of Instruction in Basic Business. 3 hrs. Objectives, teaching procedures, instructional materials, and related problems. Related research is studied.

655. Improvement of Instruction in Typewriting and Related Skills. 3 hrs. Teaching procedures; instructional materials; measurement of skills; standards of achievement; review of related research.

656. Improvement of Instruction in Shorthand and Transcription. 3 hrs. Methodology; instructional materials; transcription problems; standards of achievement; review of related research.

669. Measurement and Evaluation in Business Education. 3 hrs. Concept of evaluation; construction, selection, administration, and scoring of tests; review of related research.

670. **Problems in Vocational Cooperative Office Education.** 3 hrs. Analysis of problems in administering cooperative office education programs.

680. **Readings in Business Education.** 3 hrs. Readings in both periodical literature and research. Presentation of findings in a scholarly report. Approval of department chairman required.

691. **Research in Business Education.** 1-9 hrs.

692. **Special Problems I, II, III.** 1 hr. each arr. Prerequisite: 9 semester hours of advanced courses in business education. Scholarly paper on approved problem.

694. **Field Problems.** 3 hrs.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis, and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

701. **Seminar in Business Education.** 3 hrs. Analysis and evaluation of significant research studies in the field of business education and research of a problem.

750. **Business Education in the Junior College.** 3 hrs. Forces affecting junior college business curricula; philosophy; programs; public relations; trends, and related research.

760. **Administration and Supervision of Business Education.** 3 hrs. Principles; techniques of administration and supervision of business education in junior high, senior high, evening schools, and colleges.

780. **Readings in Business Education.** 3 hrs. Readings in both periodical literature and research. Presentation of findings in a scholarly report.

791. **Research in Business Education.** 1-9 hrs.

794. **Field Problems.** 1-3 hrs.

797. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. **Specialist Thesis.** 6 hrs.

CHEMISTRY (CHE-320)

500. **Chemical Literature.** 2 hrs. Prerequisite: CHE 352 and 311. The selection and use of the reference materials of chemistry: periodicals, journals, texts, patents, and other sources of information.

502. **Chemistry of the Atmosphere.** 4 hrs. Prerequisite: CHE 311. Radiocarbon cycle, atmospheric photochemistry, weather patterns, greenhouse effect, combustion pollutants, health hazards.

503. **Industrial Chemistry.** 4 hrs. Prerequisite: Permission of the instructor. Important processes used in industry. Invited industrial representatives and plant visits keep the topics current and useful.

505. **Problems in Chemistry.** 3-6 hrs. Prerequisite: Undergraduate coursework in the area and permission of the instructor. An intensive review of specialized areas in chemistry.

511. **Instrumental Analysis.** 4 hrs. Prerequisite: CHE 352 and 311. Theory and practice of analytical instrumentation; absorption spectroscopy, chromatography, mass spectroscopy, and magnetic resonance. Includes 3 hrs. of laboratory per week.

521. **Biochemistry I.** 3 hrs. Prerequisite: 352. The properties of amino acids, proteins, carbohydrates, lipids, and nucleic acids; actions of enzymes and protein synthesis.

522. **Biochemistry II.** 3 hrs. Prerequisite: 521. Major metabolic pathways with emphasis on energy considerations and inter-relationships of the pathways.

526. **Introduction to Biochemistry.** 3 hrs. Prerequisite: CHE 352. A one-semester survey course for science majors which emphasizes the chemical principles underlying biochemistry.

527-L. **Biochemistry Laboratory.** 1 hr. Corequisite: CHE 521 or CHE 526. An optional laboratory course to accompany CHE 521 or CHE 526.

528-L. **Advanced Biochemistry Laboratory.** 1 hr. Prerequisite: CHE 527-L. Corequisite: CHE 522. A continuation of CHE 527.

531. **Inorganic Chemistry.** 4 hrs. Prerequisite: CHE 352 and 311. Models, concepts, bonding and periodic trends in inorganic chemistry. Includes 3 hrs. of laboratory per week.

532. **Descriptive Inorganic Chemistry.** 3 hrs. Prerequisite: CHE 531. Models, properties, reactions, and synthesis of inorganic compounds and complexes.

541. **Application of Nuclear Techniques.** 4 hrs. Prerequisite: CHE 102. Applied biological, chemical and environmental problems. Topics: radio-isotope handling, radiation detection, shielding, tracer techniques. Includes 3 hrs. of laboratory per week.

551. **Qualitative Organic Analysis.** 4 hrs. Prerequisite: CHE 352. The systematic identification of pure organic compounds and the analysis of mixtures. Includes 6 hrs. of laboratory per week.

561. **Physical Chemistry.** 3 hrs. Prerequisites: MAT 277 and CHE 352. Chemical thermodynamics, kinetics, surface phenomena, quantum chemistry, symmetry, spectroscopy, and molecular structure.

561-L. **Laboratory for CHE 561.** 1 hr. A laboratory designed to accompany CHE 561. Concurrent registration in CHE 561 is required.

562. **Physical Chemistry.** 3 hrs. Prerequisite: CHE 561. A continuation of CHE 561.

562-L. **Laboratory for CHE 562.** 1 hr. A laboratory designed to accompany CHE 562. Concurrent registration in CHE 562 is required.

601. **Introductory Structural Chemistry.** 3 hrs. Prerequisite: Permission of the instructor. A study of symmetry including group theory and point group designation, stereochemistry, and the origin of spectra.

602. **Spectral Elucidation of Structure.** 3 hrs. Prerequisite: Permission of the instructor. Applications of vibrational, electronic, nuclear magnetic resonance, and mass spectroscopy to structure determination.

603. **Introduction to Kinetics and Synthesis.** 3 hrs. Prerequisite: Permission of the instructor. An introduction to kinetics, synthesis (a general approach to both inorganic and organic), and separations.

611. **Advanced Analytical Chemistry.** 3 hrs. Prerequisite: CHE 411 or permission of instructor. Sampling techniques, equilibria and activity, chemical and physical separations, and chemical methods of analysis.

612. **Advanced Chemical Analysis.** 3 hrs. Prerequisite: CHE 611. Chemical methods of analysis. Complexometric non-aqueous methods, kinetic effects, and recent advances.

621. Advanced Biochemistry. 3 hrs. Prerequisite: Permission of instructor. The inter-relationships of metabolic pathways with emphasis on control mechanisms.

631. Advanced Inorganic Chemistry. 3 hrs. Prerequisite: CHE 601. Stereochemistry, group theory and related spectroscopy, inorganic polymers, chelates, acid-base concepts, transition metals, lanthanides and actanides.

632. Inorganic and Organic Preparations. 2-4 hrs. Prerequisite: Permission of instructor. Experience in specialized synthetic techniques including inert atmosphere vacuum line, nonaqueous and large scale preparations.

651. Advanced Organic Chemistry. 3 hrs. Prerequisite: Successful completion of Organic Qualifying Examination or in special instances, permission of the instructor. The structure of organic compounds and its relationship to chemical bonding, stereochemistry, resonance, and reactivity.

652. Advanced Synthetic Organic Chemistry I. 3 hrs. Prerequisite: CHE 651. The synthesis of organic compounds emphasizing modern reagents and methods.

653. Advanced Synthetic Organic Chemistry II. 3 hrs. Prerequisite: CHE 652. Reaction pathways. Both ground-state and excited-state (photochemical) processes will be examined.

661. Advanced Physical Chemistry. 3 hrs. Prerequisite: Successful completion of Physical Chemistry Qualifying Examination, or in special instances, permission of the instructor. Molecular and thermodynamic basis for chemical phenomena. Emphasis: Applications of thermodynamics and statistical thermodynamics to chemical disciplines.

689. Chemistry Seminar. 1 hr.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Prerequisite: Consultation with and permission of major professor.

701. Chemical Applications of Combined Gas Chromatography/Mass Spectrometry/Data Systems. 3 hrs. Prerequisite: Permission of instructor. An introductory study of the GC/MS/DS technique and its utilization in chemical problem solving.

711. Analytical Spectroscopy. 3 hrs. Prerequisite: CHE 411. Quantitative determinations by I.R., visible, U.V., and x-ray spectroscopy techniques including atomic emission and absorption.

712. Advanced Chemical Instrumentation. 3 hrs. Prerequisite: Permission of instructor. The chemical, electrical, and physical problems encountered in automatic measurement and control instrumentation.

713. Analytical Separations. 3 hrs. Prerequisite: Permission of instructor. Gas, ion exchange, and thinlayer chromatography; precipitation and crystallization; zone refining and electromigration.

721. Proteins. 3 hrs. Prerequisite: CHE 521 or permission of instructor. Protein purification, methods of primary, secondary, and tertiary structure determinations, and the relationship between structure and biological activities.

722. Physical Biochemistry. 3 hrs. Prerequisite: CHE 521. Application of physical-chemical methods to the study of biological macromolecules.

723. **Enzymes.** 3 hrs. Prerequisite: CHE 521. Mechanisms of enzyme action, and the kinetics, regulation, and synthesis of enzymes.

725. **Lipids.** 3 hrs. Prerequisite: Permission of instructor. Study of the structure, functions, and metabolism of lipids.

726. **Hormone Biochemistry.** 3 hrs. Prerequisite: Permission of instructor. The structure, biosynthesis, secretion, regulation, and mode of action of hormones.

731. **Coordination Chemistry.** 3 hrs. Prerequisites: CHE 631 and CHE 661. Molecular orbital and ligand field treatments of various complexes. Emphasis on electronic vibronic transitions.

733. **Chemistry of the Representative Elements.** 3 hrs. Prerequisites: CHE 631 and 661. The chemistry and bonding properties of the non-metallic elements. Emphasis is on the current literature.

734. **Physical Methods of Inorganic Chemistry.** 3 hrs. Prerequisite: CHE 631. An in-depth study of physical tools pertinent to inorganic chemistry and to interpretation of and limits of experimental results.

741. **Nuclear Chemistry.** 4 hrs. Prerequisite: Permission of instructor. Topics: interactions of radiation with matter, nature of radioactivity, radioactive decay, radiation detection nuclear reactions, tracer applications. Includes 3 hrs. of laboratory per week.

751. **Physical Organic Chemistry.** 3 hrs. Prerequisite: CHE 651. Selected topics including application and use of quantum mechanisms, kinetics, cryoscopy, isotopes, etc., to organic chemistry.

752. **Mechanisms of Organic Reactions.** 3 hrs. Prerequisite: CHE 651. Mechanisms of organic reactions with emphasis on stereochemistry, kinetics, thermodynamics, and new developments as reported in the chemical literature.

753. **Polymer Chemistry I.** 3 hrs. Prerequisite: CHE 653 and permission of instructor. Selected polymer systems, polymerization mechanisms, structure-property relationships, and methods of evaluation.

754. **Polymer Chemistry II.** 3 hrs. Prerequisite: CHE 753. Selected polymer systems, polymerization mechanisms, structure-property relationships and methods of evaluation.

761. **Special Topics in Statistical Thermodynamics.** 3 hrs. Prerequisite: CHE 661 or permission of instructor. Statistical mechanical theory and techniques applied to calculations of thermodynamics properties. Topics: theory of liquids, real gas behavior, etc.

762. **Structural Chemistry.** 3 hrs. Prerequisites: CHE 601, 631, and 662. Theoretical examination of vibrational and rotational spectroscopy, nmr, esr, and diffraction from the standpoint of elementary quantum mechanics and group theory.

763. **Introduction to Quantum Chemistry.** 3 hrs. Prerequisite: CHE 661 or permission of instructor. Development of quantum theory relating to energy levels and bonding in chemical systems.

764. **Elements of Diffraction.** 4 hrs. Scattering, phase relationships, and structural techniques via diffraction for gases, liquids, solutions, and solids. Includes 3 hrs. of laboratory per week.

789. **Chemistry Seminar.** 1 hr.

791. **Research in Chemistry.** 1-9 hrs. Prerequisite: Approval of major instructor.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

811. Analytical Electrochemistry. 3 hrs. Prerequisite: Permission of instructor. Thermodynamics of electrochemistry, theoretical derivation of electrochemical techniques and applications thereof.

821. Biosynthetic Pathways. 3 hrs. Prerequisite: Permission of instructor. An in-depth study of selected metabolic pathways.

822. Nucleic Acid and Protein Synthesis. 3 hrs. Prerequisite: CHE 621 or permission of instructor. Protein and nucleic acid biosynthesis, with emphasis on biological control mechanisms.

831. Organometallic Compounds. 3 hrs. Prerequisites: CHE 631 and 651 or permission of instructor. The preparation, structure, physical properties and chemical reactions of compounds containing carbon-metal and carbon-metalloid bonds.

841. Radiation Chemistry. 3 hrs. Prerequisites: CHE 561 and permission of instructor. Interaction of radiation with matter. Topics: Radiation dosimetry, ions and excited molecules, ion-molecule reactions, free radicals.

851. A Survey of Heterocyclic Chemistry. 3 hrs. Prerequisite: CHE 651. Nomenclature, synthesis, and reactions of the more common heterocyclic system.

861. Special Topics in Quantum Chemistry. 3 hrs. Prerequisite: CHE 661. Topics of current interest in quantum chemistry such as magnetic resonance, electron spectroscopy, etc.

862. Chemical Kinetics. 3 hrs. Experimental techniques of measuring chemical reaction rates and the mathematical treatment of rate data.

863. Surface Chemistry. 3 hrs. Prerequisite: Permission of instructor. Surface phenomena: catalysis, absorption, ion exchange and electrical properties.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

CHILD DEVELOPMENT (CD-805)

550. Administration of Preschool Program. 3 hrs. A course in the organizational structure and managements of various preschool programs.

551. Infant Development. 3 hrs. Emphasis will be given to the development and behavior of the infant.

552. Child Development Methods and Materials. 3 hrs. Provisions are made to evaluate and select materials for use in developing teaching techniques and planning play activities for children.

553. Creative Activities for the Preschool Child. 3 hrs. A study of creative activities for preschool children with practical experiences provided.

554. Participation Experiences in the Infant Development Center. 3 hrs. arr. Directed participation as an assistant in the Infant Development Center for one semester.

555. Supervised Participation. 4 hrs. Directed participation as an assistant in the Nursery School for one semester.

559. Symposium in Child Development. 3 hrs. May be repeated for a total of 6 hours.

650. **Advanced Child Development.** 3 hrs. A study of the child through the preschool years, investigated in light of personality development theories and current research.

654. **Seminar in Child Development.** 3 hrs. May be repeated for a total of 6 hours.

691. **Research in Child Development.** 1-4 hrs.

692. **Special Problems in Child Development.** 1-4 hrs.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

CLOTHING AND TEXTILES (C&T-810)

530. **Textile Testing.** 3 hrs. Prerequisites: C&T 330. Testing and evaluating apparel and household textile fabrics by standard ASTM and AATCC methods.

531. **Tailoring.** 3 hrs. Prerequisite: C&T 333 or equivalent. Principles and techniques of tailoring applied to a suit or coat.

532. **Textile Economics.** 3 hrs. Prerequisites: C&T 330, 334, ECO 225 or 256. A study of problems which affect the consumer in production, distribution, and consumption of textiles and clothing items.

537. **Apparel Design.** 3 hrs. Prerequisites: C&T 131, 332, 330. Development of original designs for apparel items and survey of how the fashion world operates.

630. **Textiles; Recent Development.** 3 hrs. Prerequisites: C&T 330, 334. Review of product and research trends in the field of textiles.

631. **Seminar in Clothing and Textiles.** 3 hrs. Topics to be announced in advance. May be repeated once for a total of 6 hours.

633. **Flat Pattern Design.** 3 hrs. Prerequisite: C&T 333 or equivalent. Application of flat pattern design techniques to the creation of dress designs.

635. **Demonstration Techniques and Preparation of Teaching Materials in Clothing and Textiles.** 3 hrs. Prerequisite: Minimum of 9 credit hours of clothing and 3 credit hours of textiles, or permission of instructor.

637. **Apparel Designing Through Draping.** 3 hrs. Creating apparel designs on dress forms through the application of draping principles and procedures.

638. **Advanced Construction Techniques Applied to Tailoring Men's Apparel.** 3 hrs. Prerequisite: C&T 333 or equivalent.

691. **Research in Textiles and Clothing.** 1-4 hrs.

692. **Special Problems in Clothing and Textiles.** 1-4 hrs.

697. **Independent Study and Research.** 1-4 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

COMMUNICATION (COM-208)

600. Process and Effects of Communication. 3 hrs. A study of the communication process and its effects upon human behavior, emphasizing current research in communication and related fields such as marketing, advertising, and political campaigning.

605. Interpersonal Communication. 3 hrs. A comparative approach to the study of interpersonal communication theories and methods.

609. Communication Seminar. 3 hrs. A rotating seminar that addresses topics in the three areas of Radio-TV-Film, Journalism, and Speech Communication.

610. Problems in Business and Industrial Communication. 3 hrs. Analysis of work organizations as communication networks. Emphasis on identification, analysis of selected problems, consultation methods, and administration of communication training programs. Field project.

691. Research in Communication. 1-9 hrs. For independent reading projects of broad general nature. Normally limited to topics not covered in regular courses.

692. Special Problems. 3 hrs. For independent research projects designed to answer specific questions in applied or theoretical communication.

697. Independent Study and Research. No credit. Not to be counted as credit toward a degree. Students who are not in residence but who are working actively on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis in Public Address or Communication. 6 hrs.

720. Introduction to Graduate Research in Communication. 1-9 hrs. Analysis of types of problems, concepts, variables, definitions, designs measurement techniques, and interpretation of data prevalent in communication research. Involves elementary statistics and development of research proposals and designs.

721. Content Analysis of Communication. 3 hrs. Study of theory and methods of defining, categorizing, coding, and interpreting verbal and non-verbal elements of the communication process. Emphasizes source and message elements. Elementary statistical analysis, research report, and design of studies.

747. International Communication Systems. 3 hrs. An overview of international communications: comparative broadcasting systems, international broadcasting, world press.

791. Research in Communication. 3 hrs. For independent reading projects of a broad general nature. Normally limited to topics not covered in regular courses.

792. Special Problems. 3 hrs. For independent research projects designed to answer specific questions in applied or theoretical communication.

797. Independent Study and Research. Hrs. arr. Not to be counted toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

809. Communication Seminar. 3 hrs. A rotating seminar that addresses topics in the three areas of Radio-TV-Film, Journalism, and Speech Communication.

862. Seminar in Mass Media Control and Ethics. 3 hrs. Alternate years. Problems and case studies concerned with regulation, deregulation, industry codes, and ethics.

898. Dissertation. 1-6 hrs. to a total of 6 hrs.

Journalism (JOU-212)

505. Problems in Newspaper Production. 3 hrs. Practical training in the production of student newspapers and advising of staffs.

521. Public Relations. 3 hrs. Introduction to the professional practice of public relations, emphasizing its function and process, publics, tools and media of communications, and professional ethics.

522. Publicity Methods. 3 hrs. Concentrates on designing total public relations packages for public, business, and non-profit organizations. Requires production of a publicity campaign.

525. Business and Professional Publications. 3 hrs. Writing, editing, designing, and producing publications used in public relations communication with emphasis on magazines.

528. Public and Press Relations Management. 3 hrs. Emphasizes systematic analysis of clients and publics, formulation of goals and strategies, and multimedia communications. Evaluation of effectiveness and budget preparation included. Case studies and field project.

552. Press and Society. 3 hrs. Study of the relationship between the press and the culture and institutions of society.

570. Newspaper Organization and Management. 3 hrs. Study of the interrelationships of the various departments in newspaper organizations of varying circulation sizes and management techniques used to direct their activities.

Radio-Television-Film (RTF-200)

507. Theories of Mass Communication. 3 hrs. An analysis of processes and effects of mass communication.

516. Radio Station Management. 3 hrs. This course offers the student an opportunity to make economic and managerial decisions in a problem-solving format. Students may use a computer simulation game in broadcast economics that includes ratings analyses, advertising cost factors, and sales-management problems.

525. Audience Analysis. 3 hrs. Essential concepts of audience measurement used in survey research are covered. Students receive practical experience in sample selection, survey instrument design, data collection and analysis, and research report writing.

531. Advertising Management and Sales. 3 hrs. Prerequisite: RTF 330. A continuation of RTF 330, with emphasis upon case studies in advertising management and sales.

547. Television Production Workshop. 2 hrs. Prerequisites: RTF 340 and 440 or permission of instructor. A flexible format course designed to serve the career objectives and needs of advanced students. The workshop may involve large or small group productions or individual projects, or some combinations.

548. Seminar in Radio-TV. 3 hrs. Seminar topics vary depending upon faculty member and expressed interests of students. Recent topics have included: (1) Television Criticism; and (2) Social Effects of the Mass Media.

560. Issues in Broadcasting. 3 hrs. The reasons behind the present structure of the U.S. broadcasting system are explored in detail through a legal/historical treatment of major past and present "issues in broadcasting."

574. Techniques in Film Acting and Directing. 3 hrs. A course designed for advanced film and acting students in the techniques of performing before the motion picture camera.

577. Advanced Film Production Workshop. 3 hrs. Prerequisite: Consent of instructor. Students enrolled in this course will serve as director, cinematographer or film editor of a complete 16mm motion picture production.

578. Seminar in Film. 3 hrs. Seminar subjects vary. Past content has included the study of production management and labor relations, the experimental film, and the documentary film.

692. Special Problems in Radio, Television, and Film. 1-3 hrs. Prerequisite: Consent of instructor. The student analyzes a problem area and proposes a special course arrangement with a faculty member. Problems range from television, film productions, writing scripts, to writing extensive research papers.

Speech Communication (SCM-216)

500. A Symbolic Function in Persuasion. 3 hrs. Study of the connotative meanings of non-verbal abstract graphic symbols and other visual-oral cues and their functions in the formation and change of source credibility and institutional image. Applications to personal ethos, political campaigning, and public relations.

503. Political Campaign Rhetoric. 3 hrs. A cross disciplinary study of political communication and voter behavior in America. Taught only in the fall of election years so that the current campaign may be used as a case study. The course focuses the political campaign as a specialized approach to mass persuasion.

510. Business and Industrial Communication. 3 hrs. Study of communication networks, channels, media, and sources within work organizations. Emphasis on applied strategies for human relations, interpersonal, and small group communication to develop human satisfaction and productivity.

511. Workshop in Directing Forensics Programs. 3 hrs.

512. Workshop in Coaching Debate and Platform Events. 3 hrs.

650. History and Critism of American Public Address. 3 hrs. A survey of historical research studies of public speaking in America. The course studies the impact of public address on the quality of American political, social, and institutional life.

COMPARATIVE LITERATURE (CLT-230)

691. Research. 3 hrs. May be taken for a total of nine hours.

692. Special Problems. 2-6 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs.

701. Introduction to Comparative Literature. 3 hrs.

750. Comparatist History of World Literature. 3 hrs. May be taken for a total of twelve hours of credit when topics vary.

760. Principles of Comparatist Interpretation. 3 hrs. May be taken for a total of twelve hours of credit when topics vary.

791. Research in Comparative Literature. 1-12 hrs.

792. Special Problems. 2-6 hrs. arr.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on

a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hours.

COMPUTER SCIENCE AND STATISTICS (CSS-330)

500. **Computing for Secondary/Junior College Teachers.** 3 hrs. Instruction in use of the APL, BASIC and FORTRAN languages and the development of computer aided learning modules.

501. **Computer Skills for Research.** 3 hrs. Prerequisite: CSS 240. Editing of data files, computer system utilization, use of BMD, SPSS, MINITAB for processing research data.

515. **Methods of Mathematical Statistics I.** 3 hrs. Prerequisite: Permission of instructor. Continuous and discrete distribution, t-test, Chi-square test and analysis of variance.

516. **Methods of Mathematical Statistics II.** 3 hrs. Prerequisite: CSS 515. Orthogonal polynomial contrasts, multi-way classification anova, simple and multiple linear regression, polynomial regression.

517. **Experimental Design.** 3 hrs. Prerequisite: CSS 516. Factorials, randomized blocks, split-plot, fractional factorials and confounding.

518. **Sampling Methods.** 3 hrs. Prerequisite: CSS 515. The planning, execution and evaluation of sample surveys. Simple random sampling, stratified random sampling, cluster sampling.

541. **Programming Languages.** 5 hrs. Prerequisite: Experience in coding. A survey of programming languages such as ALGOL, APL, SNOBOL 4, PL/I, XPL and PASCAL.

542. **Business Computer Systems.** 3 hrs. Prerequisite: CSS 342. A review of COBOL and advanced COBOL concepts as well as algorithms used in design of business systems.

562. **Software III.** 3 hrs. Prerequisite: CSS 341 or permission of instructor. An in-depth study of operating systems.

570. **Digital Systems I.** 3 hrs. Prerequisite: Permission of instructor. Symbolic logic, Boolean algebra for descriptions and analysis of switching circuits, basic sequential circuits.

570-L. **Digital Systems I Laboratory.** 1 hr. Corequisite: CSS 570.

571. **Digital Systems II.** 3 hrs. Prerequisite: CSS 570. A study of control units, arithmetic units, memories and microprogramming concepts.

571-L. **Digital Systems II Laboratory.** 1 hr. Corequisite: CSS 571.

576. **Continuous Systems Modeling and Simulation.** 3 hrs. Prerequisite: MAT 385 or CSS 323. Modeling and simulation of physical systems using analog and digital techniques.

577. **Process Control Systems.** 3 hrs. Prerequisite: CSS 576. Use of the analog computer to solve engineering problems; process control systems.

580. **Data Processing and File Management.** 5 hrs. Prerequisite: CSS 342 or equivalent. Organization and maintenance of sequential, direct access, and index sequential files. Design of on-line file systems.

600. **Selection and Management of Computer Systems.** 3 hrs. Prerequisite: Graduate standing. Evaluation and selection of computer equipment; operation and management of a computer center.

620. Mathematical Programming I. 3 hrs. Prerequisite: CSS 320 or equivalent. Linear, non-linear, integer and dynamic programming. Use of PERT-CPM in project scheduling.

621. Mathematical Programming II. 3 hrs. Prerequisite: CSS 620. A continuation of CSS 620.

635. Statistical Simulation and Modeling. 3 hrs. Prerequisite: CSS 240. Formulation of models and the design of simulation programs. Simulation languages such as GPSS, GPDS, and NDTRAN.

636. Stochastic Processes and Queuing Theory. 3 hrs. Prerequisite: MAT 385. Poisson process, Markov processes and Queuing theory.

637. Least Squares Techniques. 3 hrs. Regression analysis, curvilinear regression, discriminant and factor analysis.

641. Advanced Systems Programming I. 3 hrs. Reentrant, shared processor design. Study of addressing architecture and virtual memory management.

642. Advanced Systems Programming II. 3 hrs. Prerequisite: CSS 641. Advanced language design; implementation of compilers and interpreters.

650. Timesharing Systems. 3 hrs. Design of telecommunications systems: modems, concentrators, front-end processors, networks, design aid programs.

660. Information Structures. 3 hrs. A study of stacks, queues, arrays, trees, hash coding, searching and sorting.

662. Advanced Operating Systems. 3 hrs. Prerequisite: CSS 562. Interrupt handlers, I/O programming techniques, error recovery, diagnostic features.

670. Computer Graphics. 3 hrs. Prerequisite: CSS 240. Design, construction, and utilization of graphics. Application of graphics to selected business and scientific problems.

672. Digital Systems III. 3 hrs. Prerequisite: CSS 571. Fault detection in digital systems and fault tolerant computing.

678. Computer Control Systems. 3 hrs. Prerequisite: CSS 341. Topics in modeling, optimization, and control theory in controlling on-line systems.

680. System Analysis and Design. 3 hrs. Application of SCEPTRE, LISA, CSMP, SL-I packages to problems in electrical, mechanical and civil engineering.

681. Information Systems. 3 hrs. Use of state-of-the-art software packages (EDMS, CICS, etc.) in designing management information systems.

690. Problems in Computer Science I. 3 hrs. Special state-of-the-art topics in computing such as artificial intelligence, finite automata, etc.

691. Problems in Computer Science II. 3 hrs. The relationships of languages, automata and turing machines.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

CONSTRUCTION CURRICULUM (BCT-393)

558. Construction Planning and Scheduling. 3 hrs. Prerequisite: BCT 355. Critical Path Method (CPM) as a project planning, scheduling, and monitoring technique.

576. **Construction Labor.** 3 hrs. Prerequisite: BCT 374. A study of construction labor resources, labor history, and governmental labor regulations.

577. **Construction Project Management.** 3 hrs. Prerequisites: BCT 374, BCT 458, BCT 476. Field quality control and work methods analysis techniques.

592. **Special Problems.** 1-3 hrs. Prerequisites: Senior standing and approval of faculty adviser.

COUNSELING PSYCHOLOGY AND COUNSELOR EDUCATION (CPY-140)

523. **Group Procedures.** 3 hrs.

532. **Introduction to Community Resources.** 3 hrs.

533. **Workshop in Counseling Procedures.** 3 hrs.

610. **Foundations, Organization, and Administration of Guidance.** 3 hrs.

611. **Career Development and Information Services.** 3 hrs.

612. **Counseling Theory and Practice.** 3 hrs.

614. **Analysis of the Individual.** 3 hrs. Prerequisite: RED 602 or equivalent.

640. **Student Personnel Work in Higher Education.** 3 hrs.

691. **Research.** 1-9 hrs.

692. **Special Problems I, II, III.** 1-3 hrs. By prior arrangement only.

694. **Field Problems I, II, III.** 1-3 hrs. By prior arrangement only.

696. **Field Practicum I, II.** 3-6 hrs. Prerequisite: CPY 760 and prior arrangement with instructor.

697. **Independent Study and Research.** 3 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

710. **Group Counseling.** 3 hrs.

711. **Theory and Practice of Consultation.** 3 hrs.

712. **Advanced Testing.** 3 hrs.

713. **Readings.** 3 hrs.

714. **The Psychology of Vocational Development.** 3 hrs.

730. **Introduction to Community and Counseling Psychology.** 3 hrs.

732. **Marriage and Family Counseling.** 3 hrs.

735. **Medical Aspects of Rehabilitation.** 3 hrs.

738. **Alcoholism and Drug Abuse Seminar.** 3 hrs.

740. **Problems Seminar.** 3 hrs.

760. **Counseling Lab Practicum.** 3 hrs. Prerequisites: CPY 612, 614, and 660 or equivalent and prior arrangement with instructor.

762. **Counseling Lab Practicum.** 3 hrs. Prerequisite: CPY 760 and prior arrangement with instructor.

763. **Group Counseling Laboratory.** 3 hrs. Prerequisites: CPY 523 or 710 and permission of instructor.

791. **Research.** 1-9 hrs.

- 792. **Special Problems.** 1-4 hrs.
- 794. **Field Problems.** 3 hrs.
- 796. **Advanced Practicum.** 3 hrs.
- 797. **Independent Study and Research.** 1-6 hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
- 798. **Specialist Thesis.** 3 hrs.
- 810. **Doctoral Integrative Seminar.** 1 hr.
- 811. **Seminar in Systems of Counseling.** 3 hrs. Prerequisites: CPY 612 and permission of instructor.
- 836. **Seminar in Counseling Psychology.** 3 hrs.
- 841. **Administration and Organization of Student Personnel Services.** 3 hrs.
- 850. **Advanced Research Seminar.** 3 hrs.
- 860. **Counseling Laboratory III.** 1-3 hrs. Prerequisites: CPY 762 and prior arrangement with instructor.
- 861. **Internship I, II, III.** 3-9 hrs. By prior arrangement only.
- 870. **Practicum in Supervision.** 3 hrs.
- 898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

CRIMINAL JUSTICE (CJ-281)

- 525. **Theories of Criminal Justice.** 3 hrs. Theories of criminal justice are traced from Aristotle's initial efforts to current Anglo-American applications.
- 526. **Comparative Criminal Justice Systems.** 3 hrs. A study of foreign criminal justice systems with emphasis on how they suggest possible reforms for the American system.
- 530. **Criminal Procedure.** 3 hrs. A survey of procedural criminal law. Due process, statute of limitation, venue, and double jeopardy are covered.
- 550. **Administration of Criminal Corrections.** 3 hrs. An in-depth study of administration of the correctional systems. To include: management, the incarceration process, probation, and parole.
- 551. **Probation, Parole, and Community Corrections.** 3 hrs. Course examines probation and parole systems, other alternatives to incarceration, and rehabilitative features available for offenders.
- 552. **Group Techniques in Corrections.** 3 hrs. An in-depth examination of the application of group work to criminal offenders in terms of theory and practice.
- 560. **Juvenile Justice System.** 3 hrs. A study of police in delinquency prevention, investigation of juvenile crime, disposition of offenders, and juvenile courts.
- 561. **Juvenile Corrections.** 3 hrs. Course provides the student interested in juvenile corrections with an in-depth perspective of the numerous treatment modalities currently in use.
- 562. **Comparative Juvenile Justice.** 3 hrs.
- 570. **Political Economy of Criminal Justice.** 3 hrs.
- 571. **Victims of Crime.** 3 hrs. Provides an in-depth study of factors that affect the victims of crime. Specific crimes are studied and remedies explored.
- 580. **Seminar in Criminal Justice.** 3 hrs. A seminar course dealing with all

aspects of the criminal justice system, tying together the knowledge of criminal justice previously learned.

625. Seminar in Criminal Justice Planning and Research. 3 hrs. Prerequisites: A basic statistics course or its equivalent and consent of instructor. A study of criminal justice planning methodology and research requirements.

626. Seminar in Advanced Topics in Comparative Criminal Justice. 3 hrs. Prerequisite: CJ 415/515 or approval of professor. Study abroad of selected topics of foreign criminal justice systems.

630. Seminar in Civil Liberties and Criminal Law. 3 hrs. A study of the legal and moral responsibility of the criminal justice system to individual rights.

631. Seminar in Anglo-American Criminal Law and Procedure. 3 hrs. A detailed study of topics in English criminal law and procedure oriented toward understanding the basis of American criminal justice and solutions to common problems.

632. Civil Law and Criminal Justice. 3 hrs. Examination of the relationship between selected areas of civil law and criminal justice agencies.

633. Seminar in Evidence. 3 hrs. An in-depth study of the laws of evidence with emphasis on application in criminal court.

640. Seminar in Legal Issues in Police Administration. 3 hrs. A study of legal issues involved in the administration of a modern police agency.

650. Seminar in Comparative Methods of Treatment in Corrections. 3 hrs. An analysis of comparative treatment methodologies utilized by correctional programs throughout the United States and in Europe.

660. Seminar in Juvenile Law. 3 hrs. Prerequisite: CJ 407/507 or approval of professor. An in-depth study of specific problems in the law pertaining to battered, neglected and delinquent children.

692. Special Problems. 1-3 hrs.

697. Independent Study and Research. Hrs. arr. No credit toward a degree. Students not in residence but who are actively working on a thesis and consulting with a major professor or using the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

CURRICULUM AND INSTRUCTION: ELEMENTARY (CIE-115)

503. Kindergarten-Primary Education. 3 hrs. A practicum designed to give teaching experiences in understanding the social, emotional, and cognitive growth and development of children.

512. Diagnosis and Remediation of Reading Disability for the Classroom Teacher. 3 hrs. Prerequisites: CIE 306, 309, and 311 or 312. Provides relevant practicum experiences in evaluation and gives extended opportunities in child tutoring appropriate to grades 2-8.

522. Curriculum Development for Career Education. 3 hrs. Introduction to principles of curriculum adaptation for school-based programs of career education.

590. Workshop in Aviation Education. 3 hrs. Designed to familiarize teachers and administrators with the role that aviation and space exploration play in developing the school curriculum. May be taken twice for a total of six hours.

591. The Reading Conference. 1 hr. An intensive three-day summer quarter

program consisting of lectures, group discussion and demonstration lessons. May be taken three times.

594. Workshop in Learning Resources in Early Childhood Education. 3 hrs. Students will become acquainted with learning sources, selection, use and production of multimedia materials for kindergarten and primary education.

606. Teaching Language Arts in the Elementary Grades. 3 hrs. The basic concepts of language teaching and learning with consideration of all the language arts and their interrelationships.

622. Supervision and Curriculum in Reading. 3 hrs. The role of reading supervisors and school administrators in developing and implementing programs for improvement of reading instruction in the schools.

691. Research in Reading. 1-9 hrs. Designed to provide a student with the opportunity to pursue an individual research project or to make an intensive review of reading research on a selected topic.

692. Special Problems I, II, III. 1 hr. A problem study to be approved by the department chairman to develop knowledge and facility in a field of interest of the student. Preparation of a scholarly paper is required.

694. Field Problems in Production I, II. 3 hrs. Prerequisite: Approval of the department chairman. This course provides students with an opportunity to study local school problems in a field setting under the supervision of a graduate professor.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 3 hrs. Credit deferred until thesis is completed.

704. Reading for Different Cultural Groups. 3 hrs. Reviews the research relating to the culturally different, specifically relating to characteristic differences and effective teaching materials and methodologies.

705. Modern Concepts in Reading Skill Development. 3 hrs. An intensive development of the skills required in classroom reading emphasizing methods and materials required to teach the skills.

706. Psychology of Reading. 3 hrs. Considers the components of the reading process, with emphasis on language and reading; approached from a theoretical point of view.

713. Advanced Diagnosis and Remediation of Reading Disability for the Classroom Teacher. 3 hrs. Prerequisite: CIF 706. Deals with corrective and remedial reading in the elementary school covering causes of disability, procedures in diagnosis, and classroom remedial treatment.

715. Advanced Diagnosis and Remediation of Reading Disability for the Reading Specialist. 3 hrs. Prerequisite: CIE 706. Deals with the role of the reading specialist, reading clinic organization, diagnostic remedial materials and techniques, with limited testing-teaching and clinical observation experiences.

717. Professional Relationship in Improved Elementary Programs. 3 hrs. A course designed to investigate behavioral factors and individuals and groups as they affect elementary school environments.

720. Internship in Reading: Public School. 3-6 hrs. The student is assigned to a public school in a teaching or supervisory capacity under the direct supervision of a

reading faculty member in order to develop competency in instruction, administration or clinical skills.

721. Practicum in Remedial Reading for the Reading Specialist. 3 hrs. Prerequisite: CIE 715. Provides supervisory experiences in diagnosis in prescribing materials for remediation and in directing remedial reading procedures for small groups of reading disability cases.

724. Problems of Teaching Arithmetic. 3 hrs. Prerequisite: MAT 310 or consent of instructor. A study of elementary school techniques, particularly those related to a number concept, of teaching arithmetic based on research studies and current practices.

725. Social Studies Education in Elementary School. 3 hrs. A course which deals with programs, practices, trends, and investigation of criteria for evaluating, planning, organizing, and improving social studies programs.

726. The Development of the Latin Countries. 3 hrs. A seminar which deals with the historical, political, social, and economic development of the Latin American region.

727. Diagnostic Techniques in Elementary Mathematics. 3 hrs.

728. Curriculum Problems in the Elementary School. 3 hrs. A course involving analysis and evaluation of curriculum elements and procedures in terms of the implications for the individual, the school, and the community.

729. Reading in the Elementary School. 3 hrs. Provides for extensive study of recent trends in materials and methods in reading in the elementary school including significant related research studies.

733. Practicum in Diagnosis and Remediation of Reading Disability for the Classroom Teacher. 3 hrs. Prerequisite: CIE 713. Develops the skills necessary in making a complete reading diagnosis including evaluations, interpretations, and recommendations.

736. Practicum in Reading Diagnosis. 3 hrs. Prerequisite: CIE 713. Enables the student to work with small groups of corrective reading cases diagnosing needs and teaching corrective lessons.

762. Research in Elementary Education. 3 hrs. Prerequisite: Advanced graduate status or permission of chairman of department. Designed to familiarize the student with the elements and methods of research, with the representative types of research, and with the major contributions of research to the field of elementary education.

768. Children's Literature in the Curriculum for the Early Years: An Awareness, Criteria, and Evaluation. 3 hrs.

770. Practicum in Early Childhood Education. 3 hrs. Curriculum planning, administration, and supervision are stressed through research and practice in laboratory settings.

772. Practicum with Parents. 3 hrs. Parent-teacher-child intrapersonal and interpersonal relationships are investigated through research and practice in laboratory settings.

776. Seminar in Early Childhood Education. 3 hrs. Emphasis is on early childhood practice, theory, and research and their relatedness to psychological, sociological, and intellectual patterns.

777. Evaluation in Early Childhood Education. 3 hrs. An introduction to specific principles and practices relative to group and individual evaluation pro-

cedures for early childhood education.

778. Creative and Mental Growth. 3 hrs. Research in creative thinking and its relationship to mental growth is emphasized.

780. Research in Child Development. 3 hrs. A course concerning methods and research in child growth in social, emotional, psychological, and physiological development.

782. History and Philosophy of Early Childhood Education. 3 hrs. An investigation of Pestalozzi, Froebel, Montessori, and others representing philosophies influencing today's curricula and programs.

785. Seminar in Reading Instruction. 3 hrs. Prerequisites: CIE 705, CIE 706, CIE 729. Considers topics pertinent to current research in reading instructions. Topics announced in advance of registration.

791. Research in Elementary Education. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Field Problems. 3 hrs. Prerequisite: Approval of the department chairman. This course provides students with an opportunity to study local school problems in a field setting under the supervision of a graduate professor.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 3 hrs. Specialist's degree candidates are required to select a significant educational problem for investigation and to present the findings in a scholarly report under the guidance of a graduate committee.

862. Seminar in Elementary Education 3 hrs. Prerequisite: Advanced graduate status or permission of the chairman of the department. A course which is interdisciplinary in nature and focuses upon contributions of research, philosophy, history, sociology, and educational psychology as it applies to the resolution of major issues in elementary education.

880. Advanced Graduate Seminar in Education. 1 hr. A series of in-depth discussions and analyses of significant educational problems and issues for students in advanced programs.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

CURRICULUM AND INSTRUCTION: SECONDARY (CIS 120)

522. Curriculum Development for Career Education. 3 hrs. Introduction to principles of curriculum adaptation for school-based programs of career education.

570. Curriculum of the Secondary School. 2 hrs. A course which examines the present-day structure and nature of the secondary school curriculum.

572. Student Activities in Secondary Schools. 1 hr. Consideration is given to the general nature, activities, and organization of the student extracurricular program.

692. Special Problems I, II, III, 1 hr. A problem study to be approved by the department chairman to develop knowledge and facility in the field of interest of the student. Preparation of a scholarly paper is required.

694. Field Problems. 3 hrs. Prerequisite: Approval of the department chairman. This course provides students with an opportunity to study local school pro-

blems in a field setting under the supervision of a graduate professor.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 3 hrs. Credit deferred until thesis is completed.

700. Seminar in Secondary Education. 3 hrs. An investigation of the major trends and objectives of the secondary school with emphasis upon the disciplinary areas of the curriculum.

701. Algebra for Secondary Teachers. 3 hrs. Consideration is given to the problems relating to the teaching of algebra and a new review of special algebraic principles.

705. Professional Subject Matter in Mathematics. 3 hrs. A study of ways to enrich the teaching of high school mathematics through the introduction of basic topics and concepts of college mathematics.

706. Geometry for Secondary Teachers. 3 hrs. Consideration is given to the problems pertaining to the teaching of high school geometry and a review of special geometric principles.

707. Materials in the Teaching of Mathematics. 3 hrs. A study of materials to be used in the teaching of secondary school mathematics both in the classroom and in extraclass activities.

708. High School Curriculum. 3 hrs. An overview of the field of curriculum and instruction at the secondary-school level with special emphasis upon contemporary trends.

710. Mathematics for Junior High School Teachers. 3 hrs. Prerequisite: To be teaching junior high school mathematics or have at least a minor in college mathematics. Consideration is given to the problems relative to the teaching of mathematics in grades 7, 8 and 9 and to the organization of mathematical subject matter for these grades.

723. Research and Problems in Mathematics Education. 3 hrs. A seminar for experienced teachers who wish to plan developmental programs of mathematics instruction in light of recent developments.

730. Reading and Study Improvement Techniques for the Junior and Senior College Teacher of Reading. 3 hrs. Summarizes research, methods, and techniques of college reading programs including a practicum or internship experience in REF 334.

737. Practicum in Remedial Reading Instruction. 3 hrs. Provides the student experiences in secondary reading diagnosis and remediation with emphasis on techniques in a practicum setting.

750. Advanced Study of Problems and Issues in Teaching Secondary School Social Studies. 3 hrs. Explores inquiry strategies for the social studies classroom and seeks to foster a firm understanding of basic analytical concepts and principles for the experienced social studies teacher.

754. Reading in the Secondary Schools. 3 hrs. A course providing for extensive study of trends in materials and methods in secondary school reading including significant research studies which relate to these.

791. Research in Secondary Education. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Field Problems. 3 hrs. Prerequisite: Approval of the department chairman. This course provides students with an opportunity to study local school problems in a field setting under the supervision of a graduate professor.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 6 hrs. Specialist degree candidates are required to select a significant educational problem for investigation and to present the findings in a scholarly paper under the guidance of a graduate committee.

880. Advanced Graduate Seminar in Education. 1 hr. A series of in-depth discussions and analyses of significant educational problems and issues for students in advanced programs.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

ECONOMICS (ECO-610)

501. Public Finance. 3 hrs. Prerequisite: ECO 225-256. A study of federal and state spending and fund raising policies within the context of the social goals to be accomplished by such policies.

502. Public Policy Analysis. 3 hrs. Prerequisites: ECO 255, 256, and 301. A study of the principles and tools of policy analysis in the public sector.

524. Economics of Urban Areas. 3 hrs. Prerequisites: ECO 255-256. A study of current problems of the cities—race, poverty, pollution, unemployment, crime, and government finance.

535. International Trade Theory. 3 hrs. Prerequisite: ECO 255-256. A study of the historical development of international trade theory, the importance of international trade, the mechanism of international payments, and modern theories dealing with the subject.

540. Economic Development. 3 hrs. Prerequisite: ECO 255-256. A study of the nature, causes and effects of regional and national economic development.

570. Comparative Economic Systems. 3 hrs. Prerequisite: ECO 255-256. Origins, development and characteristics of facism, communism, and capitalism.

580. Environmental Economics. 3 hrs. Prerequisite: ECO 255-256 or consent of instructor. A survey of economic concepts relevant to decision making with reference to the management of natural resources heretofore considered to be "free" in nature.

604. Economic Analysis. 3 hrs. Prerequisite: Graduate standing. An introduction to economic analysis and current economic problems. (May be taken in lieu of Principles of Economics for those preparing for the MBA degree but may not be applied toward 33 semester hour requirement for the MS in Telecommunications Management by those without undergraduate credit in economics.)

606. Microeconomic Analysis for Business. 3 hrs. Prerequisites: ECO 255-256, or ECO 604. A study of pricing and resource allocation with emphasis on applying microeconomic concepts.

608. Macroeconomic Analysis for Business. 3 hrs. Prerequisites: ECO 255-256, or ECO 604. Determinants of the national income, employment, and the general level of prices. Economic fluctuations and forecasting. Fiscal and monetary policy.

610. **Monetary Theory.** 3 hrs. Prerequisite: ECO 330. An advanced study of the determination of the level of prices and of alternate monetary and fiscal policies.

625. **Managerial Economics.** 3 hrs. An advanced study involving theory and actual cases in the application of economic analysis to the solutions of business problems.

630. **History of Economic Thought.** 3 hrs. An examination of the development of economic analysis from mercantilism through modern contributions.

670. **Theory of Economic Systems.** 3 hrs. Prerequisites: Principles of Economics and permission of the department chairman. A study of the theories underlying the different economic systems. This course may not be taken for credit by the student who has had comparative systems at the undergraduate level.

692. **Special Problems.** 3 hrs.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but are actively working on a thesis and consulting with major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

EDUCATIONAL ADMINISTRATION AND SUPERVISION (EDA-130)

600. **Basic Course in Educational Administration and Supervision.** 3 hrs. The introductory course for teachers and prospective administrators provides an overview of administrative roles in education.

601. **Introduction to Community Education.** 3 hrs. Designed to acquaint students with the historical development of community education, and to review the basic components of the community school.

620. **Supervision of Instruction.** 3 hrs. A practical course in supervision for prospective school principals and supervisors of instruction. Deals with principles and procedures of supervision.

630. **Organization and Administration of the Elementary School.** 3 hrs. A study emphasizing administrative problems and professional leadership in the elementary school.

632. **Organization and Administration of the Junior High and Middle Schools.** 3 hrs. Examines the Junior High-Middle School function, objectives and program from the viewpoint of the administrator and supervisor.

634. **Organization and Administration of the Secondary School.** 3 hrs. The study of practical problems encountered by high-school principals in: scheduling, attendance, discipline, office management, and the selection and supervision of staff.

650. **School Business Management.** 3 hrs. A practical course in the overall aspects of present day school business administration.

691. **Research.** 1-9 hrs. arr.

692. **Special Problems I, II, III.** 1-3 hrs. A problem study to develop knowledge and facility in a field of interest for the student which requires preparation of a scholarly paper under the supervision of a graduate professor.

694. **Field Problems in Production I and II.** 3 hrs. Opportunity to study local school problems under careful supervision of a graduate professor.

697. **Independent Study and Research.** 1-9 hrs. No credit toward a degree. Students who are not in residence but are actively working on a thesis and consulting

with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

700. Public School Finance. 3 hrs. Emphasizes principles of taxation; local, state, and federal financing of public education; equalization of education opportunity.

704. School Community Relations. 3 hrs. A study of school community relations purposes, principles, policies, and procedures.

706. Education Facilities Development and Management. 3 hrs. A comprehensive study of the administrative function in facilities, renovation, planning, maintenance, and management.

708. Administration of School Personnel. 3 hrs. Stresses administrative relationships involved in developing satisfactory personnel policies, techniques, and regulations.

710. School Law. 3 hrs. Legal aspects of such factors as school money, church-state relationships, injury to pupils, student and teacher rights, and related matters.

711. Higher Education in the United States. 3 hrs. This course provides an overview of the development, scope, philosophy, objectives, and recent innovations in colleges and universities.

712. The Junior College. 3 hrs. This course treats the development, functions, programs, philosophy, issues, and research related to the junior college.

713. Curricula in Higher Education. 3 hrs. A study of undergraduate, graduate, and professional education curriculum development in junior and senior colleges.

715. Administration and Supervision of College Teaching. 3 hrs. A study of the administration of college faculty personnel services and of techniques for faculty development.

717. Continuing Education and Community Service. 3 hrs. The role and scope of continuing education and community service in higher education, including the community college.

719. Organization and Administration of Occupational Education in the Community College. 3 hrs. Economic, social, educational and legal bases for occupational education; administration of secondary and community college programs.

720. Advanced Curriculum Development. 3 hrs. Designed for the school administrator who has or will have responsibility for curriculum development in a school system.

736. Practicum in Educational Administration. 3 hrs. Seminar-experiences in administrative problems from the standpoint of the chief school officer and the central office staff.

738. Practicum in Supervision. 3 hrs. Prerequisite: EDA 620. An advanced seminar in supervisory services and current problems from a central office viewpoint.

750. Administrative Workshop I, II, III, and IV. One and one-half hours per week. (Course may be repeated, with only nine hours counting toward a degree.)

755. Problems of the County Superintendent. 3 hrs. A course designed for county superintendents in which they study their problems under the direction of a

graduate professor.

791. Research in Educational Administration, Supervision, and Curriculum. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Field Problems in Administration I, II, III. 1 hr. A project dealing with a specific problem in school administration. An on-the-job training program with the work being done under the supervision of a graduate professor. This registration must be approved by the departmental chairman upon the recommendation of the student's major professor.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students not in residence but actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 6 hrs. Selection of practical educational problems for solution by candidates for the specialist's degree, using research and professional knowledge. A scholarly report is required.

800. Seminar: Theories in Educational Organization and Administration. 3 hrs. This course deals with the theories and concepts underlying present day school organization, administration, and supervision.

814. Organization and Administration of Higher Education. 3 hrs. A study of organizational and administrative roles of structure, governance, coordination, control and finance of higher education.

816. Seminar in Problems of Higher Education. 3 hrs. Discussion of problems and topics in higher education to be determined by the students and the instructor.

889. Special Topics Seminar. 1 hr. (Max. 3 hrs.) A seminar for inresidence doctoral students in educational administration, emphasizing current issues selected by students in consultation with faculty.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

EDUCATIONAL PSYCHOLOGY (EPY-180)

582. Moral Value Development in Childhood and Adolescence. 3 hrs. A study of the major theories of moral development and techniques for facilitating moral growth.

691. Research in School Psychology. 1-9 hrs.

697. Independent Study and Research. 1-9 hrs. Not to be counted toward a degree. Students not in residence but actively working on a thesis and using University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

710. Seminar in Teaching of Psychology. 1 hr. An analysis of the psycho-educational problems involved in the undergraduate and graduate teaching of psychology.

712. Practicum in Teaching Psychology. 3-6 hrs. Supervised teaching of courses in psychology.

720. Learning and Motivation I. 3 hrs. Basic concepts, problems, and research methodology in the studying of learning and motivation.

721. Learning and Motivation II. 3 hrs. An intensive study of the role of contemporary theories of learning and motivation in current research.

722. Brain Damage and Behavior. 3 hrs. Prerequisite: Permission of instructor. Causes of brain injury are studied and their effect on the mental and physical behavior of man are considered.

731. Community Mental Health. 3 hrs. Prerequisite: Permission of instructor. Concepts and techniques of mental health consultation with emphasis on the psychologist's role in the field of mental health.

732. Psychology of Mental Retardation. 3 hrs. Prerequisite: Permission of instructor. Study of personality development, problems of adjustment, and abnormal behavior of the mentally retarded.

740. Advanced Educational Psychology. 3 hrs. Designed primarily for the graduate student wishing to broaden his knowledge in the field of psychology of learning.

742. Learning and Instruction in Higher Education. 3 hrs. A study of the application of learning principles and instructional techniques in higher education.

745. Psychology of the Gifted Child. 3 hrs. Prerequisite: Permission of instructor. Study of the characteristics and needs of gifted children and the various means employed by the schools to provide for these children.

746. Social Processes in Classroom Learning. 3 hrs. Pupil-teacher interaction; instruction in developing goals, changing attitudes, resolving conflicts, and enhancing the individual's sense of worth.

750. Leadership. 3 hrs. Prerequisite: Permission of the instructor. Study of the factors affecting leadership in a school or industrial setting.

760. Intelligence: Theories and Development. 3 hrs. Nature of intelligence, and its development; critical evaluation of methods of measurement; relation of intelligence to social efficiency.

762. Interpretation of Psychological Tests for Exceptional Children. 3 hrs. Prerequisite: Permission of instructor. A study of the various psychological tests used in the appraisal and evaluation of exceptional children.

772. Case Studies in School Psychology Problems. 3 hrs. Prerequisite: Permission of the instructor. Studies of clinical, school, and other psychological problems encountered by the school psychologist.

774. Advanced Child Psychology. 3 hrs. Mental, motor, social, and emotional development of children of elementary school age.

775. Advanced Adolescent Psychology. 3 hrs. Advanced study of the adolescent and his needs in the home, school, and community.

783. Seminar in Psychological Services in Schools I, II, III. 1 hr. Prerequisite: Permission of instructor. Introduction to psychological services in the schools and current topics in school psychology. Limit of 3 semester hours.

784. Practicum in School Psychology. 3 hrs. Supervised use of clinical procedures in a school setting.

791. Research in School Psychology. 1-9 hrs. Prerequisite: Approval of major professor.

792. Special Problems. 1-3 hrs.

796. Internship in School Psychology. 4 hrs. Full-time practice of school psychology under on-site supervision in an approved educational setting.

797. Independent Study and Research. 3 hrs. Not to be counted as credit toward a degree. Students not in residence but actively working on a dissertation and

using University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

ELECTRONICS TECHNOLOGY (ELT-398)

511. **Electronics for Scientists.** 4 hrs. Practical electronics needed for maximum utilization of scientific instrumentation, automation, and logic circuits.

ENGLISH (ENG-224)

500. **Introduction to Linguistics.** 3 hrs. Introduces the principles of descriptive linguistics.

501. **Advanced Grammar.** 3 hrs. Introduces structural and transformational grammar. (Required for secondary or middle-grade certification in English.)

502. **English Syntax.** 3 hrs. Examines English syntax and conventional forms of English grammar.

506. **History of the English Language.** 3 hrs. Surveys the development of the English language from Old English to the present.

509. **Studies in Linguistics.** 3 hrs. Offers varied topics yearly. Repeatable to six hours.

510. **Readings in World Literature I.** 3 hrs. Examines various Greek, Roman, Medieval, and Renaissance writers.

511. **Readings in World Literature II.** 3 hrs. Examines various European Enlightenment, Romantic, and Modern writers.

513. **The Modern Novel.** 3 hrs. Examines major British and Continental novels of the last hundred years.

517. **Modern Drama.** 3 hrs. Studies important British and Continental dramas of the twentieth century.

519. **Studies in World Literature.** 3 hrs. Studies Continental, British, and American writers of the nineteenth and twentieth centuries. Repeatable to nine hours.

521. **Fiction Writing III.** 3 hrs. Prerequisites: Graduate standing, permission of the instructor, and enrollment in Center for Writers. Provides an opportunity to develop techniques of fiction writing. Repeatable to nine hours.

522. **Poetry Writing III.** 3 hrs. Prerequisites: Graduate standing, permission of the instructor, and enrollment in Center for Writers. Provides an opportunity to develop techniques of poetry writing. Repeatable to nine hours.

525. **Readings in the Theory of Fiction.** 3 hrs. Studies theories and forms of contemporary fiction. Repeatable to six hours.

526. **Readings in the Theory of Poetry.** 3 hrs. Studies theories and forms of contemporary poetry. Repeatable to six hours.

551. **Chaucer.** 3 hrs. Emphasizes a close reading of **The Canterbury Tales**.

554. **Shakespeare's Comedies and Tragicomedies.** 3 hrs. Studies a selected group of Shakespeare's dramas.

555. **Shakespeare's Histories and Tragedies.** 3 hrs. Studies a selected group of Shakespeare's dramas.

556. **Sixteenth-Century English Literature.** 3 hrs. Studies the more important English writers of this period.

557. **The Development of British Drama to 1642.** 3 hrs. Studies English drama

from its beginnings to 1642, exclusive of Shakespeare.

558. **Seventeenth-Century Prose and Poetry.** 3 hrs. Surveys the period 1600-1660, with emphasis on the "schools" of Donne and Jonson.

559. **Milton.** 3 hrs. Studies the poetry and prose of Milton with emphasis on the major works.

560. **British Literature, 1660-1740.** 3 hrs. Surveys British Literature from the Restoration to 1740.

562. **British Literature, 1740-1798.** 3 hrs. Surveys British Literature from 1740 to 1798.

564. **The British Novel to 1900.** 3 hrs. Studies the development of British fiction from Richardson through Hardy.

565. **Nineteenth-Century British Literature: Romantic.** 3 hrs. Surveys poetry and prose of the period 1790 to 1830.

566. **Nineteenth-Century British Literature: Victorian.** 3 hrs. Surveys poetry and prose of the period 1830 to 1900.

567. **Twentieth Century British Literature.** 3 hrs. Studies major twentieth-century British writers, emphasizing novelists and dramatists.

568. **Modern British Poetry.** 3 hrs. Surveys major British poets from Hardy to the present.

569. **Studies in British Literature.** 3 hrs. Examines various topics in British Literature. Repeatable to nine hours.

570. **The American Literary Renaissance, 1820-1870.** 3 hrs. Examines the writings of Emerson, Thoreau, Hawthorne, Melville, Whitman, and others.

571. **The Rise of Realism in American Literature, 1870-1920.** 3 hrs. Examines American Literature after the Civil War, focusing on the terms **realism** and **naturalism**.

572. **American Drama.** 3 hrs. Studies American drama from its beginnings to the present, with emphasis on the twentieth century.

577. **The American Novel 1920 to 1960.** 3 hrs. Studies techniques and historical backgrounds of the major novelists.

578. **Modern American Poetry.** 3 hrs. Surveys major American poets from Whitman to the present.

585. **Literature of the South.** 3 hrs. Emphasizes the fiction, poetry, and drama of Southern writers.

589. **Studies in American Literature.** 3 hrs. Studies notable movements, genres, and problems of American literature. Repeatable to nine hours.

640. **Bibliography and Methods of Research in English.** 3 hrs. Instruction in the collection, evaluation, and presentation of research materials.

692. **Special Problems.** 3 hrs. Prerequisite: Consent of instructor. Provides the opportunity to pursue a special topic or area of interest.

695. **Advanced Methods in English.** 3 hrs. Analyzes recent theories and practices in the teaching of composition, literature, and language in postelementary institutions. Repeatable to nine hours.

697. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. (Can be taken for a total of six hours.)

701. **Seminar in Analysis of Linguistic Structure.** 3 hrs. Examines varying topics but usually treats the theory of language learning and/or its relations to meaning. Repeatable to nine hours.

702. **Readings in Linguistics.** 3 hrs. Examines varying topics, usually treats practical aspects of classroom problems arising from widely varying dialects in the public schools. Repeatable to nine hours.

703. **Seminar in Teaching English as a Second Language.** 3 hrs. Examines the practical application of linguistic principles to second language teaching.

704. **Internship at the English Language Institute.** 7 hrs. Provides participation in all aspects of the English Language Institute, including teaching and testing.

714. **Tutorial in English and Germanic Philology I.** 3 hrs. Develops specialized areas of inquiry unavailable in the regular curriculum.

715. **Tutorial in English and Germanic Philology II.** 3 hrs. Develops specialized areas of inquiry unavailable in the regular curriculum.

716. **Seminar in Modern World Literature.** 3 hrs. Examines varying topics in British and Continental literature of the twentieth century: authors, movements, and genres. Repeatable to nine hours.

721. **Seminar in Fiction Writing.** 3 hrs. Prerequisites: Graduate standing, permission of the instructor, and enrollment in Center for Writers. Workshop in fiction writing. Repeatable to nine hours.

722. **Seminar in Poetry Writing.** 3 hrs. Prerequisites: Graduate standing, permission of the instructor, and enrollment in Center for Writers. Workshop in poetry writing. Repeatable to nine hours.

744. **Seminar in Literary Criticism.** 3 hrs. Examines selected literary criticism from Aristotle to the modern period.

750. **Anglo Saxon.** 3 hrs. Studies the Old English language and representative English literature prior to 1066.

751. **Beowulf.** 3 hrs. Reading *Beowulf* in Anglo-Saxon.

753. **Middle English.** 3 hrs. Presents readings in Middle English literature exclusive of Chaucer, emphasizing the language and dialects of English from 1100 to 1500.

754. **Seminar in Medieval Literature.** 3 hrs. Studies the works of a major English medieval writer or group of writers. Repeatable to nine hours.

758. **Seminar in Renaissance Literature.** 3 hrs. Studies the works of a major English renaissance writer or group of writers. Repeatable to nine hours.

760. **Seminar in Seventeenth-Century British Literature.** 3 hrs. Provides extensive study of an author, topic, or genre in seventeenth-century British Literature. Repeatable to nine hours.

761. **Seminar in Eighteenth-Century British Literature.** 3 hrs. Provides extensive study of an author, topic, or genre in eighteenth-century British Literature. Repeatable to nine hours.

763. **Seminar in English Romanticism.** 3 hrs. Provides extensive study of selected poets and topics from the Romantic Era (1790-1830).

764. **Seminar in Victorianism.** 3 hrs. Provides extensive study of selected authors and topics from the Victorian Era (1830-1910).

769. **Seminar in Modern British Literature.** 3 hrs. Offers an examination of

important modern British figures and movements. Repeatable to nine hours.

770. **Seminar in American Literature I.** 3 hrs. Presents a detailed study of selected American writers and movements before 1900. Repeatable to nine hours.

771. **Seminar in American Literature II.** 3 hrs. Presents a detailed study of selected American writers and movements since 1900. Repeatable to nine hours.

772. **Readings in American Literature.** 3 hrs. Presents a detailed study of selected American writers and movements. Repeatable to nine hours.

790. **English Colloquium.** 3 hrs. Introduces the theory and practice of teaching college writing, with emphasis on freshman composition. Repeatable to six hours.

791. **Research in English.** 1-9 hrs. Prerequisite: Approval of major professor.

792. **Special Problems.** 1-6 hrs. Prerequisite: Consent of instructor. Provides the opportunity to pursue a special topic or area of interest.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students not in residence but actively preparing a dissertation and consulting with the major professor or using the library or other University research facilities must enroll in this course.

798. **Specialist Thesis.** 3 hrs.

898. **Dissertation.** 1-6 hrs. (Can be taken for a total of six hours.)

ENVIRONMENTAL TECHNOLOGY (ESC-335)

501. **Water Pollution Detection.** 4 hrs. Prerequisite: CHE 311 or permission of instructor. Field sampling and testing for water and air pollution.

502. **Air Pollution Detection.** 4 hrs. Prerequisite: CHE 311, ESC 401, or permission of instructor. Continuation of 501 with emphasis on air pollution.

503. **Air, Water, and Solid Waste Management.** 4 hrs. Current methods for the control of air and water pollution as well as the management of solid waste.

505. **Environmental Impact Statements.** 3 hrs. Preparation of environmental impact statements, EIS's, for projects with significant environmental impact.

510. **Storm Water Modeling.** 3 hrs.

531. **Principles of Industrial Hygiene.** 4 hrs. Detection and control of harmful agents in working environments, such as vapors, gases, mists, radiation, and sound.

592. **Special Projects.** 1 hr.

789. **Seminar in Environmental Science I, II, III.** 1 hr.

FINANCE (FIN-615)

625. **Managerial Finance.** 3 hrs. A study of selected problems in business finance, banking, and investments. Outside research, along with the application of financial tools to managerial problems, is required.

630. **Problems in Finance.** 3 hrs. Application of tested and experimental financial theory by financial managers to decision making problems relating to working capital and fixed capital management.

640. **Managing Financial Institutions.** 3 hrs. Gives the student an understanding of all the major financial institutions, their organizational structures, functions, and methods of operation.

652. **Problems in Investment.** 3 hrs. Application of tested and experimental theories by investment managers to problems of short and long-term decision making.

692. **Special Problems.** 3 hrs. A supervised course in individual study and research.

697. **Independent Study and Research.** 3 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

FOOD AND NUTRITION (FN-815)

530. **Experimental Foods.** 3 hrs.

560. **Advanced Nutrition.** 3 hrs.

561. **Diet in Disease.** 3 hrs.

562. **Food Preservation.** 3 hrs.

662. **Community Health and Nutrition.** 3 hrs.

663. **The Nutrition of Children.** 3 hrs.

664. **Seminar in Food and Nutrition.** 3 hrs. May be repeated for a total of 6 hours.

667. **Nutrition for Teachers.** 3 hrs.

691. **Research in Food and Nutrition.** 1-4 hrs.

692. **Special Problems in Nutrition.** 1-4 hrs.

FOOD SCIENCE AND TECHNOLOGY (FST-396)

505. **Food Process Engineering.** 3 hrs. Application of engineering principles in food processing.

510. **Food and Drug Laws-Standards and Regulations.** 3 hrs. An examination of food laws and food quality attributes.

550. **Food Analysis I.** 2 hrs. Principles of chemical, microbiological, and physical methods used in food analysis, and application of these methods to examination of raw and processed foods.

550-L. **Food Analysis I Laboratory.** 2 hrs.

551. **Food Analysis II.** 2 hrs. Continuation of FST 550.

551-L. **Food Analysis II Laboratory.** 2 hrs.

610. **Food Enzymes.** 3 hrs. A review of enzymatic reactions and problems occurring in food during collection, manufacture, storage and distribution.

620. **Food Toxicology.** 2 hrs. Principles and processes of food spoilage and toxicology.

620-L. **Food Toxicology Laboratory.** 2 hrs.

630. **Synthetic Foods.** 2 hrs. Concepts of synthetic and unconventional foods and their manufacture.

630-L. **Synthetic Foods Laboratory.** 2 hrs.

687. **Seminar in Food Science.** 3 hrs. Selected topics in the chemistry, biochemistry, and microbiology of foods and food products.

688. **Seminar in Food Technology.** 3 hrs. Selected topics in the application of food science principles to the food industry.

691. **Research in Food Science.** 1-9 hrs.

692. Special Problems in Food Science and Technology I, II, III, IV. 2-8 hrs. A course in special techniques, designed for food science and technology majors.

697. Independent Study and Research. 1-9 hrs. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

FOREIGN LANGUAGES (FL-228)

500. Introduction to Exotic Languages. 3 hrs. May be taken for a total of six (6) hours.

501. Advanced Credit for Study Abroad. 3-9 hrs. Prerequisites: Advanced knowledge of the language to be studied; otherwise same as FL 301. (See FL 301 in undergraduate catalog.)

503. Translation. 3 hrs.

504. Methods of Teaching Foreign Language. 3 hrs. May be taken for a total of six (6) hours.

506. Foreign Language Film. 1-3 hrs. Study of literary and linguistic aspects of foreign films in a given foreign language.

511. Modern France. 3 hrs. Contemporary French education, social attitudes, politics, urban and rural life.

512. Advanced French. 3 hrs. Advanced study of French grammar and stylistics; composition; reading and stylistic analysis.

513. Studies in French Literature. 3 hrs. May be taken for a total of nine (9) hours if topics vary. Topics include nineteenth century drama and poetry, twentieth century drama, nineteenth and twentieth century novel, and seventeenth century literature.

515. History of French Literature. 3 hrs. A historical survey focusing on poetics and literary criticism.

521. Modern Germany. 3 hrs. A cultural survey of the German-speaking areas in postwar Europe.

522. Advanced German. 3 hrs. Advanced study of German grammar and stylistics; composition; reading and stylistic analysis.

523. Studies in German Literature. 3 hrs. May be taken for a total of nine (9) hours if topics vary. Topics include the age of Goethe, German realism and naturalism, twentieth-century literature.

525. History of German Literature. 3 hrs. A historical survey focusing on poetics and literary criticism.

531. Advanced Greek I. 3 hrs.

532. Advanced Greek II. 3 hrs.

535. Readings in Greek Literature. 3 hrs.

555. Readings in Latin Literature. 3 hrs. . May be taken for a total of nine hours.

571. Modern Spain and Latin America. 3 hrs. A survey of the cultural background of Spain and Latin America.

572. Advanced Spanish. 3 hrs. Review of basic grammar, progressing to more sophisticated aspects; idiom study; composition.

573. **Studies in Hispanic Literature.** 3 hrs. May be taken for a total of nine (9) hours if topics vary. Topics include the Generation of '98, the realist novel, Golden Age drama, Cervantes, and survey of Latin American literature.

575. **History of Hispanic Literature.** 3 hrs. A historical survey focusing on poetics and literary criticism.

691. **Research.** 3 hrs.

692. **Special Problems.** 1-3 hrs. May be taken for a total of nine hours.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of six (6) hours.

711. **Old French.** 3 hrs. May be taken for a total of six (6) hours.

712. **French Seminar.** 3 hrs. May be taken for a total of nine (9) hours.

721. **Middle High German.** 3 hrs. May be taken for a total of six (6) hours.

722. **German Seminar.** 3 hrs. May be taken for a total of nine (9) hours.

771. **Old Spanish.** 3 hrs. May be taken for a total of six (6) hours.

772. **Spanish Seminar.** 3 hrs. May be taken for a total of nine (9) hours.

FORENSIC SCIENCE (FSC-375)

540. **Drug Identification.** 3 hrs. Lectures, demonstrations, and discussions covering all aspects of drug identification, particularly related to law enforcement.

542. **Arson and Explosives.** 3 hrs. Introduction to the investigation of arson and bombings.

542-L. **Arson and Explosives Laboratory.** 1 hr.

GENERAL BUSINESS ADMINISTRATION (GBA-616)

615. **Operations Research.** 3 hrs. An introductory course in the principles and techniques of operations research and management science.

625. **Statistical Analysis for Decision Making.** 3 hrs. Prerequisites: ECO 301 and 302 or equivalent. A study of classical statistical methods and Bayesian theory and their application for modern business problems.

670. **Business Policy and Administration.** 3 hrs. A study of policy making and administration from a top management point of view.

685. **Business Environment: Public Policy and Social Change.** 3 hrs. The relevant environmental pressures shaping the corporation are explored: government, labor, values and ethics, innovation and technology.

GENETICS (GEN-312)

502. **Genetics.** 3 hrs. Prerequisite: MIC 101 or BIO 101: one semester of organic chemistry recommended. The fundamental principles of heredity.

503. **Advanced Genetics.** 3 hrs. Prerequisite: GEN 402-502 or 451-551. A continuation of GEN 402-502.

504. **Genetic Techniques.** 2 hrs. Prerequisite: GEN 402-502 or concurrent with 402-502. Laboratory exercises to illustrate basic genetic principles.

511. **Physiological Genetics.** 3 hrs. Prerequisite: GEN 403-503 or permission of instructor. Physiological concepts of heredity.

521. Interpretation of Biological Data. 3 hrs. Prerequisite: Permission of instructor. Techniques of design and interpretation of biological research data.

551. Medical Genetics. 3 hrs. The basic principles of human genetics with emphasis on the causation of abnormality and disease.

561. Microbial Genetics. 2 hrs. Alternate years. Prerequisites: MIC 301 and GEN 403-503. The genetics and molecular biology of microorganisms and viruses.

561-L. Microbial Genetics Laboratory. 2 hrs. Prerequisite: Permission of instructor. Laboratory exercises to demonstrate principles of bacterial and viral genetics. Must be taken concurrently with GEN 461-561.

691. Research in Genetics. 1-9 hrs.

692. Special Problems in Genetics I, II, III, IV. 2 hrs. Individuals are assigned a problem in genetics to investigate under faculty direction.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

731. Cytogenetics. 4 hrs. Prerequisite: GEN 402-502 or 451-551. Basic principles and techniques in human cytogenetics.

741. Somatic Cell Genetics. 3 hrs. Prerequisite: Permission of instructor. Basic theory and techniques of cell culture and their genetic applications.

771. Dynamics of Experimental Populations. 3 hrs. Prerequisite: Permission of instructor. Concepts of changes in population structure leading to the formation of species.

789. Genetics Seminar I, II, III. 1 hr. The presentation and defense of current concepts and principles of genetics.

791. Research in Genetics. 1-9 hrs.

792. Special Problems. 3 hrs.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

GEOGRAPHY AND AREA DEVELOPMENT (GHY-268)

500. Geography of Mississippi. 3 hrs. Survey of physical, economic, and historical geography of state; emphasis on man-environment relations and problems.

502. Geography of the United States and Canada. 3 hrs. Introduction to physical and human geography of United States and Canada; emphasis on natural resources and patterns of economic activity.

503. Geography of South America. 3 hrs. Analysis of settlement forms, resource potential, and development problems and progress by political units.

504. Geography of the Caribbean Countries. 3 hrs. An historicalgeographical approach analyzing spatial relations of cultures and economics in the Caribbean realm.

505. Geography of the USSR. 3 hrs. A regional survey of the physical,

economic, and cultural geography of the USSR.

506. Geography of Europe. 3 hrs. Topical and regional study of Europe; emphasis on industrial, trade, urban, and other cultural patterns.

507. Geography of Asia. 3 hrs. Analysis of physical and cultural environments of monsoon Asia; includes evaluation of area's resources and development potential.

508. Geography of Africa. 3 hrs. Regional synthesis of physical and cultural features which characterize the African continent.

510. Advanced Cartography. 3 hrs. Prerequisite: GHY 310. Map reproduction techniques, color preseparation, scribing, and quantitative symbolization.

511. Aerial Photograph Interpretation. 3 hrs. Systematic treatment of elements and steps involved in interpreting, measuring, and mapping of images appearing on aerial photographs.

512. Remote Sensing of the Environment. 3 hrs. Prerequisite: GHY 411 or permission of instructor. Theory and application of remotely-sensed imageries generated from aircraft and spacecraft for geographic, environmental and planning purposes.

513. Field Methods in Geography. 3 hrs. Basic methods of geographic analysis used in classifying, analyzing, and reporting field-gathered data.

515. Quantitative Methods in Spatial Analysis. 3 hrs. Prerequisite: Basic course in statistical methods. Application of statistical and other quantitative techniques to problems of spatial analysis.

516. Computer Application in Geography. 3 hrs. Prerequisite: GHY 415/515 or permission of instructor. Study and application of computer mapping as a tool of geographic analysis.

522. Geography and Soils. 3 hrs. Formation, distribution, and use of soils; emphasis on soils of south Mississippi; fieldwork and laboratory analysis.

525. Environmental Climatology. 3 hrs. Climatological aspects of atmospheric pollution; includes chemical, medical, legal, economic, and community-planning dimensions of air pollution.

527. Meteorology. 3 hrs. Study of temporal and areal variations in composition, structure, and workings of the atmosphere. Practice in use of instruments and measurements.

528. Synoptic Meteorology. 3 hrs. Prerequisite: GHY 527. Analysis of air masses; principles of weather forecasting; drawing and interpretation of daily weather maps; and making weather forecasts.

532. Perception of the Spatial Environment. 3 hrs. An analysis of man's perception of his cultural/social environment; considers both the physical and man-made landscape.

535. Historical Geography of the United States. 3 hrs. Evolution of cultural landscapes of the area now comprising the United States; emphasis on processes of change.

540. Population and Human Resources. 3 hrs. A geographical analysis of the biological and cultural characteristics of population.

551. Industrial Location Analysis. 3 hrs. Prerequisite: GHY 350 or permission of instructor. Principles of industrial location analysis; emphasis on theory, locational decision-making, and regional location of manufacturing.

552. Rural Land Use and Settlement. 3 hrs. Prerequisite: GHY 350 or permission of instructor. Characteristic ways that man utilizes rural land—including settlement, landholding, and agricultural patterns.

553. Transportation and Land Use. 3 hrs. Prerequisite: GHY 350 or permission of instructor. Various transportation modes and the effect they have on contemporary development problems.

560. Urban Geography. 3 hrs. Prerequisite: GHY 350 or consent of instructor. Review of urban development, processes contributing to development, and effect these processes have on cities.

561. Socioeconomic Planning. 3 hrs. Compilation, analysis, and projection of population and economic variables as they related to community and regional planning.

562. Environmental Planning. 3 hrs. A detailed study of environmental planning analysis and methodology as an element in land-use decision-making systems.

563. Transportation and Community Facilities Planning. 3 hrs. Examination of community facility and transportation planning and how they relate to the greater goals of the individual and society.

564. Housing and Land Use Planning. 3 hrs. Examination and analysis of housing and land use patterns in community and regional planning.

565. Programming and Land Use Regulation. 3 hrs. Prerequisites: GHY 360, 361, and 364 or consent of instructor. Consideration of various legal and institutional tools related to implementation of community and regional plans.

566. Public Policy and the Planning Process. 3 hrs. Deals with function of planning process in formulating effective public policy for development of communities and regions.

569. Studio Laboratory: Plan Preparation. 3 hrs. Preparation and presentation of a professional plan as a collaborative student/community effort. May be repeated with change of content for a total of six (6) hours.

572. Forest Resource Management. 3 hrs. Study of forest-management principles and practices related to both private and public forest holdings.

573. Water Resources. 3 hrs. Study of hydrologic processes and their application to needs of cities, industry, agriculture, and recreation.

574. Watershed Management. 3 hrs. Investigation of watersheds as planning and management units; emphasis on relationship of water to other resources. Game theory used.

575. Coastal Zone Management. 3 hrs. Study of coastal-zone problems and conflicts; emphasis on multiple-objective planning and resource-management procedures.

591. Geography and Planning Internship. 1-9 hrs. May be repeated for a total of nine hours.

610. Seminar in Research Techniques and Presentation of Geographic Data. 3 hrs. Required of all geography graduate students.

612. Seminar in Geographic Techniques. 3 hrs. May be repeated up to six (6) hours with change in content to include cartographic, aerial photo interpretation, remote sensing, statistical, and field problems.

613. Advanced Techniques in Color Mapping and Reproduction. 3 hrs. Prerequisite: GHY 310. Study and application of advanced techniques used in preparation of multi-color maps for reproduction.

617. **Geography for Teachers.** 3 hrs. Current theories, practices, and techniques used in teaching geography at the elementary and secondary levels.

623. **Seminar in Environmental Climatology.** 3 hrs. May be repeated up to six (6) hours with change in content.

631. **Seminar in Cultural-Historical Geography.** 3 hrs.

650. **Seminar in Economic Geogrpahy.** 3 hrs. May be repeated up to six (6) hours with change in content.

653. **The Dynamics of Areal Economic Development.** 3 hrs. Theory and practice of spatial aspects of economic development as applied to local, regional, and national economies.

654. **Planning and Organizing for Economic Development.** 3 hrs. Deals with the application of concepts for effective planning and organizing for economic development; students involved in actual development situations.

656. **Regional Resources and Development Potential.** 3 hrs. An examination of the relationship between regional resources and economic development potentials.

657. **Applied Industrial Development.** 3 hrs. A systematic consideration of contemporary, real-world factors involved in the industrial location decision-making process; actual Mississippi case studies examined.

658. **Seminar in the Problems of Economic Development.** 3 hrs. Analysis of actual development problems; intended to provide opportunities for students to present for critique the results of their own research and field experience.

662. **Seminar in Environmental Planning.** 3 hrs. Prerequisite: GHY 462/562 or approval of instructor.

665. **Seminar in Community and Regional Planning.** 3 hrs.

666. **Seminar in Community Planning and Development.** 3 hrs. Deals with the ways in which decision makers interact on planning and development decisions.

673. **Seminar in Water Resources.** 3 hrs. May be repeated to six (6) hrs. with change in content.

680. **Seminar in History and Development of Geographic Thought.** 3 hrs.

692. **Special Problems.** 1-6 hrs.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

797. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

GEOLOGY (GLY-340)

501. **Principles of Stratigraphy.** 3 hrs. Weekend field trip. Prerequisites: GLY 301, 341, or consent of instructor.

503. **Optical Mineralogy and Petrography.** 4 hrs. Prerequisites: GLY 301, MAT 103. Introduction to optical mineralogy and study of rocks using the

petrographic microscope.

504. Coal Petrology. 3 hrs. Prerequisites: GLY 503 or permission of instructor. A study of origin, coalification, and maceral composition of coal and the application to problems of paleobotany, oil, and gas prospecting and fuel technology.

505. Sedimentology. 3 hrs. Prerequisites: GLY 301, 304. Origin of sediments, sedimentary structures, and classification of sedimentary rocks.

510. Elements of Geochemistry. 3 hrs. Prerequisites: GLY 301 and CHE 103. Chemical processes operative in geology.

515. Clay Mineralogy. 3 hrs. Prerequisites: GLY 101 and CHE 103. Origin, structure, and chemistry of clays, identification techniques, claywater systems, soil formation and engineering applications.

520. Elements of Geophysics. 3 hrs. Prerequisites: GLY 101, MAT 103, PHY 103, and consent of instructor. Application of physics to geological investigations.

522. Geophysical Well-Logging. 3 hrs. Application of well-logging techniques to petroleum exploration, groundwater investigations, and soil studies.

526. Advanced Geophysics. 3 hrs. Prerequisites: PHY 102, 106 or 202 and permission. Corequisite: Calculus. A development of the physical principles governing gravity, electricity, and magnetism, and seismic wave propagation.

543. Micropaleontology I. 3 hrs. Alternate years. Prerequisite: GLY 341. Taxonomy, morphology, and stratigraphic use of Foraminifera.

550. Introductory Oceanography. 3 hrs. Prerequisites: GLY 103, CHE 103, and consent of instructor. Basic principles of geological oceanography.

552. Physical Marine Geology. 3 hrs. GCRL. Prerequisites: GLY 103, 301; CHE 103. Geological processes and environments of coastal zone.

554. Chemical Marine Geology. 3 hrs. GCRL. Prerequisites: GLY 103, 301; CHE 103. Chemistry of coastal waters and geochemistry of bottom sediment.

570. Petroleum Geology. 3 hrs. Alternate years. Prerequisites: GLY 308, 401, or permission. Origin, occurrence, migration, and accumulation of oil and gas.

574. Geological Excursion. 1-4 hrs. Field studies of geological phenomena in areas remote from the campus, by means of 8-10 day field trips.

576. Hydrology. 3 hrs. An introduction to the origin, distribution, movement, and properties of the waters of the earth.

600. Paleoclimatology. 3 hrs. Prerequisite: Permission of instructor. Past climatic conditions based on the rock, mineral, and biologic record.

601. Pleistocene Geology. 3 hrs. Prerequisite: Permission of instructor. Earth history of the pleistocene epoch, with emphasis on glacial phenomena.

602. Hypotheses of Continental Drift. 3 hrs. Prerequisite: Permission of instructor. Study of evidence and hypotheses regarding crustal dislocations.

603. Sedimentary Environments. 3 hrs. Prerequisite: Permission of instructor. Comparison of modern environments of sedimentation with the evidence regarding paleoenvironments.

604. Tectonics. 3 hrs. Prerequisites: GLY 308 and permission of instructor. Investigation of large-scale crustal deformation.

605. Petrology of Igneous Rocks. 3 hrs. Alternate years. Prerequisites: GLY 403/503; 410/510 desirable. Origin, classification, composition, and geochemistry of igneous rocks.

606. Petrology of Metamorphic Rocks. 3 hrs. Alternate years. Prerequisites:

GLY 403/503; 410/510 desirable. Origin, classification, composition, and geochemistry of metamorphic rocks.

607. Sedimentary Petrology. 3 hrs. Prerequisites: GLY 405, 403, and consent of instructor. Origin, classification, composition and geochemistry of sedimentary rocks.

608. Gulf Coast Geology. 3 hrs. Prerequisites: GLY 308 and 401. Stratigraphy, structural geology, and mineral resources of the Gulf Coastal Province of the U.S.

630. Principles of Geology for High School Science Teachers. 3 hrs. Prerequisites: Bachelor's degree in science or its equivalent. Principles of physical and historical geology for teachers. Not applicable to geology degree.

641. Paleocology. 3 hrs. Prerequisites: GLY 341 or equivalent. A study of the relationship between ancient organisms and the environment in which they lived; field trips.

689. Seminar. 1 hr. May be repeated once for a total of two hours credit.

692. Special Problems in Geology I, II, III. 1-3 hrs. Investigation of a specific problem not related to thesis research.

697. Independent Study and Research. 1-3 hrs. Not to be counted as a credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

HEALTH AND SAFETY EDUCATION (HSE-715)

509. Community Health Education Methods. 3 hrs. Design and management, survey of planning strategies and educational methods.

510. School Health Education Methods. 3 hrs. Advanced theory of health education methods, survey of planning strategies for levels K-12.

511. Health Education Curriculum for Secondary Schools. 3 hrs. Coordination of curriculum development, content selection, and scope and sequence.

512. Measurement and Evaluation in Health Education. 3 hrs. Instruments and techniques for measuring and evaluating personal health.

514. Consumer Health. 3 hrs. The importance of consumer education as related to advertising theory and methods, health misconceptions, health services, medical quackery and health products.

515. School Health Program. 3 hrs. Organization and administration of school health programs.

516. Advanced Emergency Care. 3 hrs. Instructor certification in standard first aid and personal safety and cardiopulmonary resuscitation and a study of theory of educational methodology.

520. Communicable and Chronic Disease in Man. 3 hrs. Problems, control programs, and prevention of communicable and chronic disease.

521. Sanitation. 3 hrs. Problems of sanitation in the home, school, food industry, water supply systems, and waste disposal systems.

522. Drugs in Society. 3 hrs. Psycho-social, medical, legal, and health aspects of drugs and their abuse.

523. Curriculum Development in Alcohol Education. 3 hrs. Alcoholism, instructional approaches, and community resources for alcohol education.

530. Marriage and Human Sexuality. 3 hrs. Physical, emotional, and medical bases for successful courtship, marriage, and parenthood.

535. Mental Health Education. 3 hrs. A survey of the content and teaching strategies for mental health education.

540. Driver Education. 3 hrs. Survey of instruction, use of training cars, delegation of authority, legal responsibilities, and teacher qualifications.

541. Traffic Safety Education. 3 hrs. An in-depth study of driver, pedestrian, engineering, enforcement, and other traffic safety problems.

542. Laboratory Programs in Driver Education. 3 hrs. Examination of aims, objectives, and role of laboratory programs in driver education.

543. Methods of Driver and Traffic Safety Education. 3 hrs. Prerequisite: HSE 540. Organization and administration of driver education programs.

544. Simulation in Driver Education. 3 hrs. Prerequisites: HSE 540 and 543. Audiovisual instructional methods that are used to complement and supplement other instructional techniques utilized in driver education programs.

545. Driver Education Laboratory. 1 hr. This course is designed to provide students in HSE 443 with supervised teaching experience.

546. Innovative Programs in Driver Education. 3 hrs. New and unique teaching methods of driver and traffic safety education.

575. Medical Aspects of Athletic Training. 3 hrs. Team physician and trainer relationships. Physical examination, emergency equipment, medical terminology, and problems related to the team physician.

588. Motorcycle Education. 3 hrs. Analysis of motorcycle traffic problems and methods of teaching classroom and laboratory phases of motorcycle education.

589. Driver Education for Special Students. 3 hrs. Curriculum development and teaching materials in traffic safety education.

611. Internship in Community Health Education. 9 hrs. Supervised professional experience in a selected community health setting.

622. Epidemiology. 3 hrs. A study of epidemiological concepts and methods related to incidence and prevalence of disease.

640. Traffic Systems Management. 3 hrs. An overview of agencies and systems involved in the management of vehicular traffic.

641. K-6 Safety Education. 3 hrs. Development and implementation of comprehensive elementary safety program.

680. Research Techniques. 3 hrs. Problems, evaluation of problems and procedures, types and techniques of research.

685. Contemporary Issues in Health. 3 hrs. Health education needs and a study of contemporary health problems as they relate to content and methodology in health education.

692. Special Problems. 3 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

710. Seminar in Health. 3 hrs.

711. **Advanced Personal and Community Hygiene.** 3 hrs. Intensive study in personal and community hygiene.

715. **School Health Program.** 3 hrs. The development, organization, and administration of school health services.

720. **Community Organization for Health Education.** 3 hrs. Communities and community organizations as they relate to health services and health education.

730. **Marriage and Parenthood Education.** 3 hrs. Marriage and family life and social adjustment problems of high school and college students.

740. **Facilities and Equipment in Driver Education Programs.** 3 hrs. Planning for facilities and equipment for driver education programs.

741. **Multi-Media Systems in Driver Education Programs.** 3 hrs. Unique adaptation of newer media systems to the broad problems in driver and traffic safety.

742. **Organization and Administration of Driver and Traffic Safety Education.** 3 hrs. Organization and administration aspects of driver and traffic education as they relate to the total school.

743. **Addictive Substances as Related to Traffic Safety Education.** 3 hrs. A study of addictive substances and associated problems in traffic safety.

744. **Psychological Factors in Driver and Traffic Safety Education.** 3 hrs. A study of behavior with emphasis on attitudes, motivation, and adjustment and their relationship to safe driving.

745. **Safety Education.** 3 hrs. Methods and materials of safety education in public schools.

746. **Administration and Supervision of Safety Programs.** 3 hrs. Administration and supervision of governmental, industrial, agency, and community safety programs.

770. **Care and Treatment of Athletic Injuries.** 3 hrs. Techniques and facilities for adequate prevention and treatment of athletic injuries.

791. **Research in Health.** 1-9 hrs.

792. **Special Problems in Health.** 3 hrs.

797. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

HISTORY (HIS-272)

511. **History of the USSR.** 3 hrs.

512. **English Constitutional History.** 3 hrs. Emphasis on the main trends in the evolution of the modern common law system and the contemporary constitution.

513. **Medieval Life and Thought.** 3 hrs.

514. **Modern Germany.** 3 hrs. A survey of the political, diplomatic, economic, and social developments in Germany from the Bismarckian Era through the Third Reich.

515. **French Revolution and Napoleon.** 3 hrs. A study of Revolutionary and Napoleonic France and its impact on Europe.

516. **Europe 1815-1870.** 3 hrs. A survey of early nineteenth century Europe, with emphasis on nationalism and the quest for reform.

517. **Europe 1870-1914.** 3 hrs. A survey of late nineteenth and early twentieth century Europe with emphasis on the growth of democracy, the expansion of empires, and the origin of World War I.

518. **Europe 1914-1945.** 3 hrs.

521. **Tudor-Stuart Britain.** 3 hrs.

524. **Modern European Popular Culture.** 3 hrs.

525. **Nineteenth and Twentieth Century Britain.** 3 hrs.

540. **Age of Jefferson and Jackson.** 3 hrs. A study of political, social, and cultural changes in the United States from 1789-1848.

542. **The Old South.** 3 hrs. The social, economic, and cultural history of the antebellum South with particular emphasis on the plantation system and slavery.

543. **The New South.** 3 hrs. An analysis of the peculiarities of the South's social, economic, political, and intellectual development from 1877 to the present. Emphasis is placed on those factors making the South distinctive in American history.

545. **U.S. Foreign Relations to 1914.** 3 hrs. A study of U.S. foreign policy from the American Revolution to World War I with an emphasis on manifest destiny and American expansion.

546. **U.S. Foreign Relations Since 1914.** 3 hrs. A continuation of HIS 545 with an emphasis on the diplomacy of World War I, the events leading to World War II, World War II, and the Cold War.

547. **Colonial America.** 3 hrs. Development of social, political, economic, and religious life in the English colonies of North America to 1763.

548. **The American Revolution.** 3 hrs. A discussion course concerning the dispute between Great Britain and her American colonies which led to the development of a new nation.

550. **Early American Frontier.** 3 hrs. A discussion course concerning pioneer life—primarily in the South—from the Atlantic seaboard to the Mississippi Valley.

551. **The Western Frontier.** 3 hrs. Examines the significance of frontier types west of the Mississippi including explorers, mountain men, cowboys, farmers, miners, railroaders, and Indians.

552. **The Sectional Controversy and the Civil War, 1848-1877.** 3 hrs. An examination of sectional conflict, Civil War, and Reconstruction with primary emphasis on political and military history.

553. **The Origins of Modern America, 1877-1919.** 3 hrs. A survey of political, economic, diplomatic, and social developments in the United States from the close of the Civil War through the end of World War I.

554. **Prosperity, Depression, and World War II, 1919-1945.** 3 hrs. A detailed examination of the social, intellectual, political, and economic history of the inter-war years.

556. **U.S. Legal and Constitutional History to 1877.** 3 hrs. Examines the relationship between law and society in the formative period of American history.

557. **U.S. Legal and Constitutional History Since 1877.** 3 hrs. Traces the response of law to problems of modernization in the United States from the end of Reconstruction to the present.

575. **A History of American Thought I.** 3 hrs. A survey of American thought from the 17th through the 19th century.

576. **A History of American Thought II.** 3 hrs. A survey of 20th century American thought.

580. **History of Mexico and Caribbean.** 3 hrs.

581. **History of South America: The Andean Countries.** 3 hrs.

582. **History of South America: Brazil and the Rio de la Plata.** 3 hrs.

692. **Special Problems, I, II, III, IV.** 1-4 hrs.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

710. **Philosophy and Methods of History.** 3 hrs.

711. **Medieval History.** 3 hrs. May be repeated for a total of nine hours.

712. **Seminar in European History, 1870 to the Present.** 3 hrs. May be repeated for a total of nine hours.

716. **British History.** 3 hrs. May be repeated for a total of nine hours.

717, 718. **Readings in European History I, II.** 3 hrs. each. May be repeated for a total of nine hours.

740. **American Historiography.** 3 hrs.

746, 747. **Readings in American History I, II.** 3 hrs. each. May be repeated for a total of nine hours.

748. **Readings in Mississippi History.** 3 hrs.

749. **Seminar in American History.** 3 hrs. May be repeated for a total of nine hours.

780. **Latin American History.** 3 hrs. May be repeated for a total of nine hours.

791. **Research in History.** 1-9 hrs. Prerequisite: Approval of major professor.

796. **Seminar in Practicum in the Teaching of History in Colleges and Universities.** 3 hrs.

797. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

HOME ECONOMICS EDUCATION (HEE-820)

601. **Home Economics in American Education.** 3 hrs. Trends and issues in curriculum development, instruction, supervision, administration, and research.

602. **Advanced Adult Education.** 3 hrs. Current techniques and procedures for teaching adult programs in home economics.

603. **Teaching Family Living on the Secondary Level.** 3 hrs.

604. **Consumer Home Economics Education.** 3 hrs. Consumer problems in present day society.

605. **Supervision of Home Economics Education.** 3 hrs. Practices and procedures in the supervision of vocational home economics.

606. **Selected Topics in Home Economics Education.** 3 hrs. (May be repeated once.) Prerequisite: The corresponding subject matter course. The development and

application of units of work in selected areas in the secondary school program.

607. **Curriculum Problems in Home Economics.** 3 hrs. A practicum for developing home economic curriculum materials for local schools.

608. **Home Economics in Higher Education.** 3 hrs. Administrative problems and evaluation of departments, at the college level.

609. **Home Economics Related Occupations.** 3 hrs. The exploration and planning of teaching units for home economics related occupations.

610. **Seminar in Home Economics Education.** 1-6 hrs.

612. **Supervised Field Experience in Home Economics Related Occupations.** 6 hrs. This course meets part of the requirements for Occupational certification. (Cannot be counted toward an advanced degree.)

614. **Preparation of Teachers for Home Economics for Special Needs Programs.** 3 hrs. Designed to prepare Home Economics teachers to teach homemaking skills to the physically handicapped and elderly.

615. **Planning and Development of Home Economics.** 3 hrs. For teachers who need to up-date their teaching techniques.

691. **Research.** 1-4 hrs.

692. **Special Problems in Home Economics Education.** 1-4 hrs.

697. **Independent Study and Research.** 1-4 hrs. Not to be counted toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

798. **Research Problem.** 6 hrs. Selection of a practical educational problem using research and professional knowledge. A scholarly paper is required.

HOUSING AND HOME MANAGEMENT (HHM-825)

640. **Home Engineering.** 3 hrs. This course includes a study of the selection, placement, and storage of home appliances and their use as related to the mechanical features.

644. **Seminar in Housing and Home Management.** 3 hrs. May be repeated for a total of 6 hours.

692. **Special Problems in Any of the Following Areas:** 1-4 hrs.

- a. Household Equipment.
- b. Housing.
- c. Home Furnishings.
- d. Home Management.

INDUSTRIAL AND VOCATIONAL EDUCATION (IVE-165)

500. **Shop Planning and Equipment Selection.** 3 hrs. A study of shop layout problems.

501. **Laboratory Organization.** 3 hrs. Organization of students and physical facilities.

503. **Occupational Analysis and Course Construction.** 3 hrs. Analyzing occupations into their basic components and arranging for instructional purposes.

504. **Problems of the Coordinator.** 3 hrs. A study of the problems, procedures, techniques, etc., in the operation of part-time cooperative education.

521. **Power Transmissions.** 3 hrs. A study of mechanical, hydraulic, pneumatic and electrical power and transmission.

531. **Principles of Trade and Industrial Teaching.** 3 hrs. A methods course for teaching trade and industrial subjects.

532. **Problems in Adult Education.** 3 hrs. Methods and techniques in teaching adults in industrial education classes.

533. **Curriculum Construction for Cooperative and Adult Vocational Education** 3 hrs. Objectives, content and arrangement of units for teaching cooperative and evening classes.

534. **Occupational Surveys.** 3 hrs. Planning and conducting local survey for educational purposes.

535. **Instructional Materials for Industrial Education.** 3 hrs. Identification, selection, development, and use of instructional aids in vocational and technical education.

536. **Curriculum Construction for Vocational Technical Education.** 3 hrs. Principles, practices and techniques in planning and establishing a class or program in vo-tech education.

562. **Advanced Machine Tool Techniques.** 3 hrs. Advanced study of machine tool operations processes and procedures.

580. **History and Philosophy of Vocational Education.** 3 hrs. Objectives, principles, aims, and organization of programs in schools and colleges.

581. **Testing and Evaluation in Vocational Education.** 3 hrs. Development and utilization of various measuring devices and techniques.

582. **Industrial and Vocational Safety.** 3 hrs. Analysis of fundamentals of accident prevention and their application in school shops.

604. **Shop and Small Plant Design.** 3 hrs. Problems in design of work stations, production lines, and materials control.

605. **History of Industrial Education.** 3 hrs. A study of leaders, movements, and agencies in the development of industrial education.

606. **Philosophy of Industrial Arts Education.** 3 hrs. A study and evaluation of the leading philosophies in the field.

607. **Organization of Instructional Materials in Industrial Education.** 3 hrs. A study of the development and utilization of various instructional materials.

611. **Philosophy and Organization of Vocational Education.** 3 hrs. Principles and development of vocational education under state and federal acts.

689. **Seminar in Industrial Education, I, II, III.** 2 hrs. May be taken three quarters.

692. **Special Problems in Industrial and Technical Education.** 1-3 hrs. Advanced individualized project relevant to the student's skill speciality.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

701. **Supervision of Vocational and Technical Education.** 3 hrs. A study of the problems of local directors and supervisors of vocational and technical education.

702. Individualized Instruction in Vocational Technical Education. 3 hrs. Foundations, principles, and techniques of teaching knowledge and skills on an individual basis.

703. Contemporary Vocational and Technical Education Programs. 3 hrs. A comparative analysis of contemporary and emerging programs in vocational education.

704. Vocational Guidance and Placement. 3 hrs. An overview of careers available through vocational and technical education, methods of student identification placement, and follow-up.

794. Field Problem in Industrial and Vocational Education. 3 hrs. Prerequisites: REF 601, REF 702, and approval of the major professor.

798. Specialist Thesis. 3 hrs. Utilizing research and professional knowledge in the solution of a practical educational problem. Scholarly paper required.

INDUSTRIAL TECHNOLOGY CURRICULUM (INT-395)

505. Production Technology. 3 hrs. Plant layout, materials handling, production evaluation, set-up and maintenance procedures.

506. Industrial Automation. 3 hrs. Automation and its implications to industrial processes, economics, and interpersonal relations.

507. Personnel in Technology. 3 hrs. The procurement, development, and utilization of technical personnel.

508. Innovations in Technology. 3 hrs. Introduction to factors involved in technological change within an industrial operation.

509. Plant Layout. 3 hrs. Effectiveness of plant layout to the production activity involving personnel, materials, tools, and equipment.

540. Alternate Energy Systems. 3 hrs. Study of alternative sources of energy and power.

576. Electrical Safety in Industry. 3 hrs. Electrical equipment safety. Injuries caused by electrical faults. Inspection and maintenance of electrical equipment.

577. Fire Safety in Industry. 3 hrs. Factors contributing to industrial fires. Chemistry and classification of fires. Fire extinguishers and water systems. Fire prevention.

592. Special Problems. 1-3 hrs. arr. Prerequisite: Senior standing and approval of adviser. Supervised study in selected areas.

INSTITUTION ADMINISTRATION (IAD-817)

570. The School Lunch. 3 hrs.

571. Institution Food Purchasing. 3 hrs.

664. Seminar in Institution Management. 3 hrs. May be repeated for a total of 6 hours.

672. Quantity Food Preparation. 3 hrs. Prerequisite: Permission of instructor.

673. School Lunch Supervision. 3 hrs.

674. Institution Organization and Administration. 3 hrs.

692. Special Problems in Institution Administration. 1-4 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or

other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

JOURNALISM (JOU-212)

See Course Listing under **COMMUNICATION**, page 161.

LIBRARY SCIENCE (LS-170)

501. **Introduction to Reference Resources and Services.** 3 hrs. Introduction to reference materials, services, activities, and functions as well as methods for locating information.

505. **Cataloging and Classification I.** 3 hrs. Principles and methods of descriptive cataloging of book and non-book materials. Introduction and practical application of Anglo-American Cataloging Rules. Introduction to OCLC.

506. **Cataloging and Classification II.** 3 hrs. Principles and methods of classification and subject indexing. Coverage of Dewey Decimal and Library of Congress Classification schemes. Introduction to on-line cataloging and classification. Hands-on experience with OCLC.

511. **Development of Library Collections.** 3 hrs. Principles governing the selection and procurement of all types of library materials, including the use of selection aids and bibliographic sources for developing both print and non-print collections.

516. **Audio-Visual Media and Equipment.** 3 hrs. A survey of media resources and equipment with an emphasis on utilization in libraries.

517. **Literature and Related Media for Children.** 3 hrs. A survey of children's literature, traditional and modern, and other related materials for use by and with children of grades 1-6.

518. **Literature and Related Media for Adolescents.** 3 hrs. Study of adolescent literature and other related materials for use by and with young people of grades 7-12.

525. **Instructional Styles in Media Center.** 3 hrs. The assessment of individualized styles of instruction in school library media centers.

526. **Film and Television in Libraries.** 3 hrs. The conceptualization, production, critiquing, and effective utilization of film and video in planning library services. The organization of film libraries and the use of cable T.V. in libraries is also included.

591. **School Library-Media Administration Workshop.** 3 hrs. Intensive two-week workshop on problems of media center administration. May be taken twice; only three hours of credit can be applied to degree requirements.

605. **Library Management.** 3 hrs. A survey of administrative theory and principles in relationship to the organization and operation of all types of libraries.

609. **Administration and Supervision of School Media Centers.** 3 hrs. Administration of elementary and secondary school library media centers including program planning, budgeting, and evaluation.

621. **Selection and Organization of Media Resources.** 3 hrs. Prerequisite: LS 516. Selection, evaluation, and use of various formats of media. Attention to library organization of non-print resources.

622. **Design and Production of Media in Libraries.** 3 hrs. Prerequisite: LS 516.

Fundamental techniques for design and production of multi-media materials.

624. **Creative Library Programs for Children and Youth.** 3 hrs. Prerequisite: LS 517 or 518. Explores the development of creative visual forms and use of cultural resources in library services to children and adolescents.

628. **Storytelling.** 3 hrs. Prerequisite: LS 517 or 518. A study of oral tradition and folk literature with emphasis upon selection of stories and the art and techniques of story telling. Provides practice in story telling.

629. **Studies in Children's Literature.** 1-3 hrs. Prerequisite: LS 517. Advanced study and evaluation of children's literature and publishing trends in the field.

631. **History of Libraries.** 3 hrs. Development of libraries from ancient times to the present with special reference to the relationship of libraries to sociocultural, economic, and political trends.

633. **History of Books and Printing.** 3 hrs. Evolution of the book from earliest times to the present; examination of the invention and spread of printing.

634. **History of Children's Literature.** 3 hrs. Prerequisite: LS 517 or 518. Traces the development of children's literature in England and the United States to the early twentieth century.

636. **The Library in American Society.** 3 hrs. The library as a social institution, its background, and the forces that have shaped its development.

638. **Trends in American Publishing.** 3 hrs. A survey of contemporary American publishing and book manufacturing with emphasis upon the relationship of the book trade to libraries.

640. **Academic Libraries.** 3 hrs. The development and administration of the academic library.

641. **Public Libraries.** 3 hrs. The development and administration of the public library. Problems in public library services.

642. **Special Libraries.** 3 hrs. The development and administration of the special libraries serving businesses, institutions, and government agencies.

646. **Special Collections and Archives.** 3 hrs. Prerequisites: LS 501 and 505. The acquiring, processing, servicing, and management of collections composed of rare books, manuscripts, archival papers, oral history files, and other special materials.

648. **Archival Practicum.** 3 hrs. Prerequisite: LS 646. Provides an opportunity for supervised practice in special collections and archival operations.

651. **Introduction to Information Science.** 3 hrs. Survey of information science as a field study; the role of major information and documentation centers.

654. **Library Automation.** 3 hrs. Study of the theory of computer programming and its application to the solution of the library problems.

663. **Subject Bibliography.** 3 hrs. Prerequisites: LS 501 and 502. An evaluation of library resources in various subject fields with emphasis on characteristics of subject literatures, problems of use, and bibliographical control and organization.

664. **Government Publications.** 3 hrs. Prerequisite: LS 501. Study of the types of government publications and tools for their bibliographic organization.

665. **Bibliography of the Humanities.** 3 hrs. Prerequisite: LS 501. Study, evaluation, and utilization of library resources in the humanities.

666. **Bibliography of the Social Sciences.** 3 hrs. Prerequisite: LS 501. Study, evaluation, and utilization of library and information resources in the social

sciences.

667. **Bibliography of Science and Technology.** 3 hrs. Prerequisite: LS 501. Study, evaluation, and utilization of library and information sources in the pure and applied sciences.

668. **Research Methods in Library Science.** 3 hrs. Survey of scientific research methods and their application to the field of library and information science.

675. **Seminar in the Organization of Materials.** 3 hrs. Prerequisites: LS 505 and LS 506. An examination of the historical, theoretical, and practical aspects of processing information through an analysis of descriptive and subject techniques (schemes and lists) with emphasis on the Library of Congress Classification.

689. **Library Practicum.** 2-4 hrs.

692. **Special Problems in Librarianship.** 1-3 hrs.

MANAGEMENT (MGT-620)

568. **Compensation Administration.** 3 hrs. Prerequisites: MGT 360. Problems in wage and salary administration; job analysis; job evaluation, incentive systems, wage surveys, and fringe benefits.

572. **Labor Relations.** 3 hrs. An integrated study of collective bargaining theory and practical application.

582. **Production Problems Seminar.** 3 hrs. Prerequisite: Background in industrial management. Production problems and policies including selection and maintenance of equipment, product mix and quality, and production controls.

584. **Problems in Personnel Administration.** 3 hrs. Prerequisite: Background in personnel management. Application of the principles of personnel administration through the use of case analysis, incidents, and role playing.

596. **Small Business Consulting.** 3 hrs. Prerequisite: Consent of instructor. Actual problem solving in business firms.

610. **Production Management.** 3 hrs. Analysis of managerial production functions and processes including product and plant planning, maintenance, quality control, and purchasing.

615. **Operations Research.** 3 hrs. An introductory course in the principles and techniques of operations and management science.

620. **Problems in Management.** 3 hrs. A case study of selected social, economic, industrial and personnel management problems.

625. **Human Relations and Organization Theory.** 3 hrs. A study of interpersonal relationships in organizations and the design, analysis of organization structures.

630. **Survey of Labor-Management Relations.** 3 hrs. Prerequisite: Consent of department chairman. A survey of the development of labor law and collective bargaining.

635. **Labor Arbitration.** 3 hrs. Prerequisite: MGT 472 or consent of instructor. Provides an introduction to the process and law of labor arbitration.

640. **Advanced Personnel Administration.** 3 hrs. An in-depth study of human resource management in the U.S. and internationally.

669. **Behavioral Dynamics in Organizations.** 3 hrs. An experiential study of behavioral dynamics in organizations; development of knowledge of behavioral systems and skills in the application and use of the knowledge in work situations.

675. Small Group Leadership and Facilitating Skills. 3 hrs. A workshop/seminar/practicum experience to building leadership, communication, and facilitating skills useful in organizational and training settings.

692. Special Problems in Management. 3 hrs. Prerequisite: Permission of department chairman.

MARKETING (MKT-625)

524. Market Research. 3 hrs. Prerequisites: MKT 300 and ECO 302. A study of principles and techniques used in market research and evaluation of such research.

528. Marketing Management. 3 hrs. A comprehensive case course designed to synthesize the more specialized marketing knowledge of the student.

542. Advanced Retailing. 3 hrs. Prerequisite: MKT 300 and MKT 342. An examination of specific problem areas in retail store management including retail innovations, spatial competition, and retail mix development.

558. Promotion Development. 3 hrs. A study of the relationship of the business organization to the various interest groups which affect its promotional results.

595. International Marketing. 3 hrs. Prerequisite: Graduate status. The economic, political, and cultural aspects of international business operations.

625. Seminar in Marketing. 3 hrs. A survey of marketing theory and practices designed to give the non-marketing student functional knowledge of the field.

635. Seminar in Consumer Behavior. 3 hrs. Application of behavioral science concepts to research and marketing decisions.

640. Marketing Planning. 3 hrs. A case study of the methods used by firms to reach their marketing goals through the application of planning, budgeting, and costing theory.

650. Marketing Research Seminar. 3 hrs. A study of advanced research techniques used in market analysis.

692. Special Problems in Marketing. 3 hrs. Consent of the chairman of the Marketing Department is required prior to registration.

MARRIAGE AND FAMILY LIFE (MFL-830)

650. Early Marriage Adjustment. 3 hrs.

651. Parents and Children. 3 hrs.

652. The Family in the Community. 3 hrs. Designed to help the teacher understand better the social setting in which students live and its importance in the development of family living courses to meet student needs.

658. Seminar in Family Living. 3 hrs. May be repeated for a total of 6 hours.

691. Research in Family Living. 1-4 hrs.

692. Special Problems in Family Living. 1-4 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

MATHEMATICS (MAT-350)

508. Mathematical Foundations for In-Service Elementary School Teachers, K-3. 3 hrs. Numeration, place value, intuitive geometry, measurement, arithmetic algorithms.

509. Mathematical Foundations for In-Service Elementary School Teachers, 4-6. 3 hrs. Intuitive geometry, integers, rational numbers, probability, graphing metric system, word problems.

510. Mathematics for Teachers of Junior High School Mathematics. 3 hrs. Numbers and infinite sets, geometry, non-Euclidean geometry, coordinate geometry, trigonometry, functions, probability, statistics. (Open only to elementary and special education majors or as an elective for mathematics majors.)

511. Vector Analysis. 3 hrs. Prerequisite: MAT 379. Vector valued functions, space curves, line and surface integration, the divergence theorem, Green's and Stokes' theorems.

515. Introduction to Differential Equations II. 3 hrs. Prerequisite: MAT 385. Systems of linear differential equations, characteristic equations, operator methods, approximating solutions, Laplace transforms.

517. Introduction to Partial Differential Equations. 3 hrs. Prerequisites: MAT 385. Integrability conditions, quasilinear and linear equations, applications to physics, classification of second order equations and canonical forms, separation of variables.

518. Linear Programming. 3 hrs. Prerequisite: MAT 326. Convex sets, linear inequalities, extreme-point solutions, simplex procedure, applications.

519. Optimization in Mathematical Programming. 3 hrs. Prerequisites: MAT 326 and MAT 379. Selected topics in optimization from linear and nonlinear programming.

520. Statistics and Probability. 3 hrs. Prerequisites: MAT 341 and MAT 379. Random variables, probability functions, independent events, conditional probability, expectation, hypothesis testing.

521. Number Theory. 3 hrs. Prerequisite: MAT 341. Induction, well ordering, division algorithm, Euclidean algorithm, Fundamental Theorem of arithmetic, number theoretic functions, congruences.

523. Modern Algebra I. 3 hrs. Prerequisite: MAT 341. Survey of standard algebraic systems; rings, integral domains, fields, modules, polynomial rings, quotient rings, fields of quotients.

524. Modern Algebra II. 3 hrs. Prerequisite: MAT 423. Elementary notions in groups, Fundamental Theorem of Finitely Generated Groups, permutation groups, quotient groups, the isomorphism theorems, applications of transformation groups.

525. Fourier Series. 3 hrs. Prerequisites: MAT 326 and MAT 385. Orthogonal functions, Fourier series, convergence and applications.

526. Linear Algebra II. 3 hrs. Prerequisite: MAT 326. Determinants, polynomials, complex numbers, single linear transformations, orthogonal, unitary and symmetric linear transformations.

535. Laplace Transform. 3 hrs. Corequisite: MAT 385. Transforms, inverse transforms, convolution theorem, differentiation and integration of transforms, applications to differential equations.

536. Theory of Functions of a Complex Variable I. 3 hrs. Prerequisite: MAT

379. Complex numbers and functions, limits, continuity, differentiation, analytic functions, branches, contour integration, series.

537. **Graph Theory.** 3 hrs. Prerequisite: MAT 341. An introduction to graphs and a sampling of their numerous and diverse applications.

539. **Combinatorics.** 3 hrs. Prerequisites: MAT 326, 341, and 377 or 378. 3 hrs. Counting and enumeration techniques, inversion formulas and their applications, and counting schemata relative to permutations of objects.

541. **Advanced Calculus I.** 3 hrs. Point set theory, sequences, continuity, uniform continuity, limits, mean value theorems, L'Hospital's rule.

542. **Advanced Calculus II.** 3 hrs. Prerequisite: MAT 441. Riemann integration, Taylor's theorem, improper integrals, infinite series, uniform convergence.

560. **Numerical Analysis I.** 3 hrs. Prerequisites: MAT 326, MAT 379, CSS 240. Methods of solving equations and systems of equations, error analysis, difference equations.

561. **Numerical Analysis II.** 3 hrs. Prerequisites: MAT 385, MAT 460, CSS 340. Interpolating polynomial, numerical differentiation and integration, numerical solutions of differential equations, round off error.

573. **Metric Spaces.** 3 hrs. Continuity, Hausdorff and countability axioms, products, Euclidean spaces, connectedness, compactness, Heine-Borel and Bolzano-Weierstrass theorems.

575. **General Topology I.** 3 hrs. General topological spaces, bases and sub-bases, continuity.

576. **General Topology II.** 3 hrs. Prerequisite: MAT 475. Connectedness, separation axioms, countability axioms, compactness, metrizability.

580. **Mathematics for In-Service Secondary School Teachers I.** 3 hrs. Prerequisite: 24 hours of mathematics excluding pre-calculus courses, secondary mathematics teaching experience. Special mathematical topics for in-service secondary school mathematics teachers, to include algebra, number theory, graph theory, and combinatorics.

581. **Mathematics for In-Service Secondary School Teachers II.** 3 hrs. Prerequisites: 24 hours of mathematics excluding pre-calculus courses, secondary mathematics teaching experience. Special mathematical topics for in-service secondary school mathematics teachers, to include probability theory, analysis, applied mathematics, topology, geometry.

601. **Differential Geometry I.** 3 hrs. Prerequisite: MAT 411. An introduction to the theory of plane curves, space curves, and surfaces.

603. **Modern Algebra.** 3 hrs. Prerequisite: MAT 424. Simple groups, solvable groups, the Sylow theorems, presentations of groups, category terminology, introductory homological algebra.

605. **Ordinary Differential Equations.** 3 hrs. Prerequisite: MAT 415. Topics from the theory of ordinary differential equations. Specific topics to be selected by the instructor.

606. **Partial Differential Equations.** 3 hrs. Prerequisite: MAT 417. Dirichlet, Neuman, and mixed boundary value problems. Classical techniques of solution of partial differential equations. Applications.

636. **Functions of a Complex Variable II.** 3 hrs. Prerequisite: MAT 436. Taylor and Laurent series, residue calculus, conformal mapping with applications, integral formulas of the Poisson type, analytic continuation.

637. Functions of a Complex Variable III. 3 hrs. Prerequisite: MAT 636. A continuation of MAT 636.

641. Functions of a Real Variable I. 3 hrs. Prerequisite: MAT 442. Foundations of real analysis and introduction to Lebesgue integration.

642. Functions of Real Variable II. 3 hrs. Prerequisite: MAT 641. Continuation of MAT 641.

651. Applied Mathematics I. 3 hrs. Vector spaces, linear transformations, matrices, eigenvalues, eigenvectors, diagonalization, spectral decomposition, canonical forms.

652. Applied Mathematics II. 3 hrs. Prerequisite: MAT 651. Corequisite: MAT 442. Point sets in Euclidean n -space, sequences, continuity, convergence, integration, integral operator and expansion theorems.

675. Topology. 3 hrs. Prerequisite: MAT 476. Properties of topological spaces such as imbedding and extension theorems, metrizable and compactification.

681. Topics in Algebra I, II, III. 3 hrs. Prerequisite: MAT 423 and permission of instructor. May be repeated for a maximum of nine hours credit.

682. Topics in Analysis I, II, III. 3 hrs. Prerequisite: Permission of instructor. May be repeated for a maximum of nine hours.

683. Topics in Topology and Geometry I, II, III. 3 hrs. Prerequisite: Permission of instructor. May be repeated for a maximum of nine hours of credit.

689. Mathematics Seminar I, II, III, IV. 1 hr. Prerequisite: Permission of instructor.

691. Research in Mathematics. 1-9 hrs.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

MECHANICAL TECHNOLOGY (MET-397)

544. Solar Heating and Cooling. 3 hrs. Solar Energy conversion methods; collectors; residential, commercial solar, heating and cooling. Economics of solar energy. Total energy systems.

592. Special Problems. 1-3 hrs. Prerequisite: Senior standing and approval of faculty adviser.

MEDICAL TECHNOLOGY (MTC-354)

689. Medical Technology Seminar. 1 hr. Presentation of current material related to clinical medicine.

692. Special Problems in Medical Technology. 2-8 hrs. Individuals will be assigned some specific clinical problem in medical technology to investigate under faculty direction.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis or doing an internship at a clinical facility must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

MICROBIOLOGY (MIC-310)

501. Microorganisms in Health and Disease. 4 hrs. A comprehensive survey of microorganisms of public health significance for nursing students.

511. Pathogenic Microbiology. 2 hrs. Schemes for isolation and identification of major groups of disease-producing microorganisms.

511-L. Pathogenic Microbiology Laboratory. 2 hrs.

512. Advanced Pathogenic Microbiology. 2 hrs. Continuation of MIC 511 on an advanced level.

512-L. Advanced Pathogenic Microbiology Laboratory. 2 hrs.

513. Medical Mycology. 2 hrs. Prerequisite: Permission of instructor. Consideration of the fungi of medical significance.

513-L. Medical Mycology Laboratory. 1 hr.

521. Virology and Tissue Culture. 2 hrs. Survey of viruses and viral classification, including viral diseases, involving tissue culture techniques.

521-L. Virology and Tissue Culture Laboratory. 2 hrs.

522. Viral Pathogenesis and Diagnosis. 2 hrs. Host-Viral interaction from a pathological and immunological viewpoint with isolation and laboratory characterization.

522-L. Viral Pathogenesis and Diagnosis Laboratory. 2 hrs.

541. Immunology and Serology. 2 hrs. A study of the cellular, chemical, and genetic mechanisms of the immune response.

541-L. Immunology and Serology Laboratory. 2 hrs. A laboratory introduction to cellular and serologic immune reactions and their diagnostic usefulness.

555. Microbial Physiology. 3 hrs. A comprehensive survey of bacterial structure, nutrition, and biochemistry.

555-L. Microbial Physiology Laboratory. 1 hr.

561. Food Microbiology. 2 hrs. Microorganisms affiliated with the preparation, spoilage, pathogenicity, and sanitation of foods.

561-L. Food Microbiology Laboratory. 2 hrs.

571. Microbiology of Water, Sewage, and Industrial Waste. 2 hrs. Control of pure water supply.

571-L. Microbiology of Water, Sewage, and Industrial Waste Laboratory. 2 hrs.

691. Research in Microbiology. 1-9 hrs.

692. Microbiological Problems. 2-8 hrs. Offered only by special arrangement.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis or making use of University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

742. Principles of Immunochemistry. 2 hrs. A study of the chemistry of antigens, antibodies and complement and the mechanism of their interaction.

742-L. Principles of Immunochemistry Laboratory. 2 hrs.

743. Immunohematology. 4 hrs. A study of serological genetic, and anthropological aspects of human blood groups, isoantigens and antibodies.

751. Advanced Microbial Physiology. 4 hrs. Concepts of microbial nutrition, metabolism, adaptation, and genetics as related to growth and environment.

761. **Industrial Microbiology.** 4 hrs. An intensive study of microorganisms as applied to the production of organic compounds.

789. **Microbiology Seminar.** 1 hr. The presentation and defense of current, classical concepts and principles of microbiology.

791. **Research in Microbiology.** 1-9 hrs.

792. **Special Problems.** 3 hrs.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not residents but who are actively working on a dissertation or making use of University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

MUSIC (MUS-675)

531. **History of Opera.** 3 hrs. The history of musical theatre from Greek drama to present. Open to non-music majors with permission of instructor.

532. **American Music.** 3 hrs. A study of the development of music in North America. Open to non-music majors with permission of instructor.

533. **20th Century Music.** 3 hrs. Examination of music trends since Debussy and Mahler. Open to non-music majors with permission of instructor.

534. **Ancient, Medieval, and Renaissance Music.** 3 hrs. A study of the rise of music in the ancient world, the beginning of western music and of polyphony. Open to non-music majors with permission of instructor.

535. **Baroque Music.** 3 hrs. The development of musical styles and forms from Monteverdi through J.S. Bach. Open to non-music majors with permission of instructor.

536. **18th Century Music.** 3 hrs. The development of classical styles and forms, emphasis on *style galant*, *emfindsamer stil* and the Viennese classicists. Open to non-music majors with permission of instructor.

537. **19th Century Music.** 3 hrs. The development of musical romanticism, emphasis on the expansion of classical forms, and the appearance of new stylistic concepts. Open to non-music majors with permission of instructor.

539. **Diction.** 3 hrs. Systematic introduction to phonetics of various foreign languages as applied to singing. May be taken for a total of (6) hours. The second registration permitted only into a section in which the languages emphasized are different.

540. **Vocal Literature.** 2 hrs.

541. **Vocal Literature.** 2 hrs. A continuation of MUS 540.

542. **Piano Literature.** 2 hrs.

543. **Piano Literature.** 2 hrs. A continuation of MUS 542.

544. **Organ Literature.** 2 hrs.

545. **Organ Literature.** 2 hrs. A continuation of MUS 544.

546. **Instrumental Literature.** 2 hrs.

547. **Instrumental Literature.** 2 hrs. A continuation of MUS 546.

548. **Choral Literature.** 2 hrs.

549. **Choral Literature.** 2 hrs. A continuation of MUS 548.

550. **Symphonic Literature.** 3 hrs. A history and literature of the symphony orchestra from 1600 to the present. Open to non-music majors with permission of instructor.

551. **Chamber Music.** 3 hrs. A survey of music for small instrumental ensembles. Open to non-music majors with permission of instructor.

552. **Band Literature I.** 2 hrs. A survey of band literature, grades I through IV.

555. **Arranging for Marching Band.** 2 hrs. Designed to provide the arranger with the essential techniques of scoring for the outdoor band.

559. **Church Music Colloquium.** 3 hrs. Philosophies of church music as well as the administration, liturgies, and related materials will be studied.

562. **Hymnology.** 3 hrs. The history of the Christian hymn from its roots to present-day form.

620. **Graduate Music Theory Review.** 3 hrs. A survey of the materials of music with emphasis on the study of the harmonic system of the 18th and 19th centuries. Credit for this course may not be counted toward a graduate degree.

630. **Graduate Music History Review.** 3 hrs. A rapid study of music from Gregorian Chant through Penderecki. This course is required of all entering graduate students, but may be waived subject to an entrance examination in music history.

692. **Special Problems, I, II, III.** 1-3 hrs. each. Investigation of specialized areas of interest. A committee of not less than three graduate faculty is appointed to evaluate the results of each study.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

702. **Bibliography for Music Research.** 3 hrs. An extensive examination of research materials, including music and non-music reference works.

711. **Pedagogy of Theory.** 3 hrs. A course in the teaching of music theory in the senior high school as well as the college level.

712. **Seminar in Composition.** 3 hrs. A composition class for non-composition majors.

713. **Seminar in Music Theory.** 2 hrs. For theory and composition majors; open to others with permission of instructor.

714. **Composition Project.** 6 hrs. Open to students with a major in theory and composition.

715. **Recital.** 1-3 hrs. Prerequisite: Permission of applied music instructor and approval by the major professor.

721. **Analytical Techniques.** 3 hrs. A course designed to develop technique in analysis of music from the time of early polyphony through the Baroque period.

722. **Analytical Techniques.** 3 hrs. A course designed to develop techniques in analysis of music in the Classical and Romantic periods.

723. **Seminar in 20th Century Compositional Techniques.** 3 hrs. A seminar in techniques utilized by composers in the 20th century. Emphasis will be placed on analysis of selected works.

724. **Pre-Baroque Counterpoint.** 2 hrs. Contrapuntal writing up to eight parts. Prerequisite: MUS 321 or permission of instructor.

725. **Tonal Counterpoint.** 2 hrs. Contrapuntal writing culminating in the fugue. Prerequisite: MUS 322 or permission of instructor.

727. **Advanced Orchestration.** 3 hrs. May be taken three times. Prerequisites: MUS 401 or permission of instructor.

728. **Preparation and Publication of Music.** 3 hrs. A course designed to acquaint students with problems involved in preparing music for professional purposes.

731. **Seminar in Performance Practices I.** 3 hrs. A study of the conductor's and performer's problems in the interpretation and performance of vocal and instrumental music of the 17th and 18th centuries.

732. **Seminar in Performance Practices II.** 3 hrs. A study of the conductor's and performer's problems in the interpretation and performance of vocal and instrumental music of the 19th and 20th centuries.

740. **Seminar in Solo Vocal Literature.** 3 hrs. Study of selected song, oratorio and cantata literature.

752. **Band Literature II.** 3 hrs. A survey of band literature, grades V and above.

760. **Seminar in History of Church Music.** 3 hrs. Sacred choral literature from the Middle Ages to the present is surveyed. Organ literature as it applies to the church service is also examined.

761. **Seminar in Music Literature.** 3 hrs. A course designed to expand the student's knowledge of music literature through a period, historical, or school approach.

762. **Seminar in Music Literature.** 3 hrs. A continuation of MUS 761.

786. **Concert Band Arranging.** 2 hrs. Arranging, transcribing, editing, and rescoring for the concert band.

787. **Arranging for School Choruses.** 2 hrs. Concepts and techniques of scoring for voices, with emphasis on arranging rather than on original composition for choral organizations.

791. **Research in Music.** 1-9 hrs.

792. **Special Problems I, II, III.** 1-3 hrs. each, arr. Investigation of specialized areas of interest. A committee of not less than three graduate faculty is appointed to evaluate the results of each study.

797. **Independent Study and Research.** Hrs. arr. Not to be counted toward a degree. Students who are not in residence but who are actively working on a dissertation with the major professor or making use of the library or other University facilities must enroll in this course.

821. **Advanced Analytical Techniques.** 3 hrs. An in-depth analysis of selected works prior to 1750. Prerequisite: MUS 721 or permission of music theory faculty.

822. **Advanced Analytical Techniques.** 3 hrs. An in-depth analysis of selected works chosen from the classical and romantic periods. Prerequisite: MUS 722 or permission of the music theory faculty.

823. **Advanced Analytical Techniques.** 3 hrs. An in-depth analysis of selected works chosen from the 20th century. Prerequisite: MUS 723 or permission of the music theory faculty.

870. **First Doctoral Solo Recital.** 3 hrs. Prerequisite: Permission of applied music instructor and approval of the major professor.

871. **Doctoral Lecture Recital.** 3 hrs. Prerequisite: Permission of applied music instructor and approval of the major professor.

872. **Second Doctoral Solo Recital.** 1 hr. Prerequisite: Permission of applied music instructor and approval of the major professor.

873. **Concerto Performance with Band or Orchestra.** 1 hr. Prerequisite: Permission of applied music instructor and approval of the major professor. A solo performance of a major work with a major performing ensemble is this **Bulletin's** definition of "concerto."

874. **Major Solo Role in an Opera.** 1 hr. Permission of applied music instructor and approval of the major professor.

875. **Major Solo Role in Oratorio.** 1 hr. Prerequisite: Permission of applied music instructor and approval of the major professor.

876. **Chamber Music Recital.** 1 hr. Prerequisite: Permission of applied music instructor and approval of the major professor.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

MUSIC-APPLIED AND ORGANIZATIONS (APM-670)

601, 602. **Piano.** 1-4 hrs.

611, 612. **Organ.** 1-4 hrs.

614, 615. **Flute.** 1-4 hrs.

617, 618. **Oboe.** 1-4 hrs.

620, 621. **Clarinet.** 1-4 hrs.

623, 624. **Saxophone.** 1-4 hrs.

626, 627. **Bassoon.** 1-4 hrs.

629, 630. **Horn.** 1-4 hrs.

632, 633. **Trumpet.** 1-4 hrs.

635, 636. **Trombone.** 1-4 hrs.

638, 639. **Euphonium.** 1-4 hrs.

641, 642. **Tuba.** 1-4 hrs.

644, 645. **Violin.** 1-4 hrs.

647, 648. **Viola.** 1-4 hrs.

650, 651. **Cello.** 1-4 hrs.

653, 654. **String Bass.** 1-4 hrs.

656, 657. **Percussion.** 1-4 hrs.

661, 662. **Voice.** 1-4 hrs.

664, 665. **Harp.** 1-4 hrs.

667, 668. **Guitar.** 1-4 hrs.

671, 672, 673. **Chamber Music.** 1 hr.

681. **Orchestra.** 1 hr. May be taken three times.

682. **Band.** 1 hr. May be taken three times.

683. **Chorus.** 1 hr. May be taken three times.

685. **Collegium Musicum.** 1 hr. May be taken two times.

686. **Women's Chorus.** 1 hr. May be taken three times.

687. **Men's Chorus.** 1 hr. May be taken three times.

688. **University Singers.** 1 hr. May be taken three times.

689. **Chamber Singers.** 1 hr. May be taken three times.

- 691, 692, 693, 694. **Advanced Composition.** 1-3 hrs.
- 701, 702. **Piano.** 1-4 hrs.
- 711, 712. **Organ.** 1-4 hrs.
- 714, 715. **Flute.** 1-4 hrs.
- 717, 718. **Oboe.** 1-4 hrs.
- 720, 721. **Clarinet.** 1-4 hrs.
- 723, 724. **Saxophone.** 1-4 hrs.
- 726, 727. **Bassoon.** 1-4 hrs.
- 729, 730. **Horn.** 1-4 hrs.
- 732, 733. **Trumpet.** 1-4 hrs.
- 735, 736. **Trombone.** 1-4 hrs.
- 738, 739. **Euphonium.** 1-4 hrs.
- 741, 742. **Tuba.** 1-4 hrs.
- 744, 745. **Violin.** 1-4 hrs.
- 747, 748. **Viola.** 1-4 hrs.
- 750, 751. **Cello.** 1-4 hrs.
- 753, 754. **String Bass.** 1-4 hrs.
- 756, 757. **Percussion.** 1-4 hrs.
- 761, 762. **Voice.** 1-4 hrs.
- 764, 765. **Harp.** 1-4 hrs.
- 767, 768. **Guitar.** 1-4 hrs.
- 771, 772, 773. **Chamber Music.** 1 hr.
781. **Orchestra.** 1 hr. May be taken three times.
782. **Band.** 1 hr. May be taken three times.
783. **Chorus.** 1 hr. May be taken three times.
785. **Collegium Musicum.** 1 hr. May be taken two times.
786. **Women's Chorus.** 1 hr. May be taken three times.
787. **Men's Chorus.** 1 hr. May be taken three times
788. **University Singers.** 1 hr. May be taken three times.
789. **Chamber Singers.** 1 hr. May be taken three times.
- 791, 792, 793. **Composition.** 1-3 hrs.
- 801, 802. **Piano.** 1-4 hrs.
- 811, 812. **Organ.** 1-4 hrs.
- 814, 815. **Flute.** 1-4 hrs.
- 817, 818. **Oboe.** 1-4 hrs.
- 820, 821. **Clarinet.** 1-4 hrs.
- 823, 824. **Saxophone.** 1-4 hrs.
- 826, 827. **Bassoon.** 1-4 hrs.
- 829, 830. **Horn.** 1-4 hrs.
- 832, 833. **Trumpet.** 1-4 hrs.
- 835, 836. **Trombone.** 1-4 hrs.
- 838, 839. **Euphonium.** 1-4 hrs.

- 841, 842. **Tuba.** 1-4 hrs.
- 844, 845. **Violin.** 1-4 hrs.
- 847, 848. **Viola.** 1-4 hrs.
- 850, 851. **Cello.** 1-4 hrs.
- 853, 854. **String Bass.** 1-4 hrs.
- 856, 857. **Percussion.** 1-4 hrs.
- 861, 862. **Voice.** 1-4 hrs.
- 864, 865. **Harp.** 1-4 hrs.
- 871, 872, 873. **Chamber Music.** 1 hr.
- 881. **Orchestra.** 1 hr. May be taken three times.
- 882. **Band.** 1 hr. May be taken three times.
- 883. **Chorus.** 1 hr. May be taken three times.
- 885. **Collegium Musicum.** 1 hr. May be taken two times.
- 888. **University Singers.** 1 hr. May be taken three times.
- 889. **Chamber Singers.** 1 hr. May be taken three times.
- 891, 892, 893. **Composition.** 1-3 hrs.

MUSIC EDUCATION (MED-680)

- 523. **Organ Construction and Design.** 3 hrs.
- 524. **Instrument Repair.** 3 hrs. Designed to give practical experience in preventive maintenance, minor repair and adjustment of string, woodwind, brass and percussion instruments.
- 529. **Piano Tuning and Repair.** 3 hrs. Study of basic techniques of tuning and repairing pianos.
- 539. **Vocal Techniques and Materials.** 3 hrs. Techniques and procedures for teaching correct vocal production habits; examination of choral literature for secondary school and collegiate levels.
- 562. **Music for Elementary Teachers II.** 3 hrs. Application of the fundamental skills of MED 361 in the selection of music materials and methods of presentation. May not be applied toward degrees in Music or Music Education.
- 590. **Piano Workshop.** 2 hrs. A course designed to meet the needs of the piano teacher, including a survey of standard materials together with a presentation of modern teaching methods. Cannot be applied toward a music degree.
- 591. **Instrumental Workshop.** 2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 592. **Choral Workshop.** 1-2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 593. **Elementary Music Workshop.** 2 hrs. Intensive examination of current problems, trends, and materials in the field of elementary music education. Cannot be applied toward a music degree.
- 594. **Marching Band Workshop.** 1-2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 595. **Instrumental Conductors Conference.** 2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.
- 596. **Choral Conductors Conference.** 2 hrs. May be repeated for a maximum of six hours credit. Cannot be applied toward a music degree.

697. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. No thesis will be accepted unless accompanied by an abstract. Theses which employ questionnaires will not be accepted unless accompanied by summaries of the findings to be mailed to respondents.

700. Advanced Vocal Pedagogy. 2 hrs. Advanced study of vocal pedagogical procedures.

714. Administration and Supervision of Elementary and Secondary School Music Programs. 3 hrs. The organization, supervision, and evaluation of the total music program, including program development, problems of finance, and selection of personnel and equipment.

725. Foundations and Principles of Music Education. 3 hrs. Historical and philosophical foundations of the total music education program, and principles of teaching, learning, organization, administration.

726. Research in Music Education. 3 hrs. Investigation of current research and literature in music education; study of writing techniques pertinent to music education research.

731. Graduate Conducting I. 3 hrs. Development of conducting skill, rehearsal techniques, study and preparation of scores of standard band, choral, and orchestral repertoire.

732. Graduate Conducting II. 3 hrs. A continuation of MED 731.

733. Seminar in Conducting. 3 hrs. Techniques of advanced choral and instrumental conducting. Score analysis and problems of preparation and performance.

734. Woodwind Techniques and Materials. 2 hrs. A course dealing with the problems of teaching woodwind instruments and a comprehensive study of woodwind literature.

735. Brass Techniques and Materials. 2 hrs. A comprehensive survey of teaching techniques for the brasses with a survey of teaching materials emphasizing pedagogy textbooks and books designed for class instruction.

736. Percussion Techniques and Materials. 2 hrs. Performance techniques of all percussion instruments and a survey of teaching materials and literature for percussion.

737. String Techniques and Materials. 2 hrs. A comprehensive survey of teaching techniques for stringed instruments; survey of teaching materials emphasizing pedagogy textbooks and method books.

738. Keyboard Techniques and Materials. 2 hrs. An examination of keyboard literature as it relates to the techniques and practices of piano instruction.

740. Music Education in the Elementary Schools. 3 hrs. An advanced course in the development of music education programs for children.

750. Music in General Education. 3 hrs. An examination of the role of music in the general education of students throughout the educational system.

755. Aesthetics and Psychology of Music. 3 hrs. An examination of issues and theoretical positions in the areas of philosophy of music and of musical learning.

756. Evaluation and Guidance in Music Education. 3 hrs. The administration and interpretation of tests of musical talent and musical achievement.

791. Research in Music Education. 1-9 hrs. Prerequisite: Approval of the major professor.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Specialist Thesis. 3 hrs.

825. Doctoral Seminar in Music Education. 3 hrs. Orientation to doctoral study. Studies in the history and philosophy of music education.

826. Doctoral Seminar in Music Education. 3 hrs. Primary focus on advanced research methods, techniques, and procedures appropriate to the doctoral level of music education.

828. Administration of College and University Music Programs. 3 hrs. A practical course in the principles of administration, organization, and goals of music programs at the college or university level.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

NURSING (NSG-070)

601. Conceptual Framework for Nursing. 3 hrs. Theories and concepts relevant to nursing.

603. Nursing Research. 3 hrs. Prerequisite or concurrent: Descriptive statistics, NSG 601. Research methodology, emphasis nursing.

604. Seminar in Nursing Research. 3 hrs. Prerequisite: NSG 603. Development of a research proposal or a professional paper.

611. Curriculum and Teaching in Nursing. 3 hrs. Prerequisite or concurrent: NSG 601. Curriculum development, selection, design, and evaluation of instructional systems for the teaching of nursing.

612. The Nurse Administrator. 3 hrs. Prerequisite or concurrent: NSG 601. Roles of the nurse administrator in a variety of health settings.

***621. The Family as a Health Care System.** hrs. Prerequisite: NSG 601 or approval of instructor. Analysis of the health status of families and individuals.

***622. Nursing Management of Family Health Problems.** 4 hrs. Prerequisites: Physical Assessment Skills, NSG 603, 621. Development, testing, evaluation of theory-based strategies in complex family health problems.

***623. Nursing Responsibility in Meeting Community Health Needs.** 4 hrs. Prerequisite: NSG 622. Analysis of community organizations affecting health care for populations.

631. Theoretical Systems for Mental Health Nursing. 3 hrs. Prerequisites: NSG 601 or approval of instructor. Analysis of theoretical foundations relevant to mental health nursing.

632. Nursing in the Field of Mental Health. 4 hrs. Prerequisites: Physical Assessment Skills, NSG 603, 631. Design, implementation, and evaluation of nursing systems for individuals, families and groups.

633. Community Mental Health Nursing. 4 hrs. Prerequisite: NSG 632. Problems in communities with formulated plans for change.

***Offered Fall, 1980-81, contingent upon available faculty.**

652. Needs Assessment. 4 hrs. Prerequisites: Physical Assessment Skills, NSG 603, 631. Process for determining needs and resources of culturally diverse groups in unserved and underserved areas.

653. Facilitation and Consultation. 4 hrs. Prerequisite: NSG 652. Assisting unserved and underserved groups to utilize resources for attainment of mental health goals.

678. Practicum in Role Development. 4 hrs. Prerequisite: MSG 601 and role courses. Seminar and practicum in selected nursing roles, emphasizing synthesis of role with area of concentration.

691. Individualized Study in Nursing. 3 hrs. Prerequisite: Approval of instructor. Student selected project to pursue an area of interest in Nursing. Paper required.

692. Special Studies in Nursing. 3 hrs. Prerequisite: NSG 604. Preparation of a professional paper in an area of student interest.

697. Independent Study and Research. 1-3 hrs. Students not in residence but actively working on a thesis or making use of University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of six hours. Prerequisite: NSG 604. Credit deferred until thesis completed.

PHILOSOPHY (PHI-284)

506. Philosophy of Man. 3 hrs. Philosophical consideration of the nature of man including topics in philosophical anthropology and philosophy of mind.

515. Philosophy for Teachers of Children. 3 hrs. Survey and development of the materials and skills to teach children philosophically.

526. Philosophy Summer Lectures in England. 3-6 hrs. An introduction to the language and techniques of philosophy relevant to practical, critical problems.

536. Aesthetics. 3 hrs. Philosophical analysis of theories of art and beauty.

540. American Philosophy. 3 hrs. Survey of the development of philosophy in America and major American philosophers.

550. Existentialism and Phenomenology. 3 hrs. An examination of the central themes in contemporary European existentialism and phenomenology.

551. Political Philosophy. 3 hrs. The major schools of political philosophy from classical to contemporary times.

553. Philosophy of Law. 3 hrs. An inquiry into theories of law.

556. The Philosophy of Science. 3 hrs. The conditions and status of knowledge, perception, measurement, hypothesis and casuality.

558. Symbolic Logic. 3 hrs. The basic theory and operations of the sentential calculus, quantification, and the logic of relations.

560. Analytic Philosophy. 3 hrs. An examination of the central themes in contemporary British-American analytic philosophy.

610. Philosophy of Religion. 3 hrs. Seminar topics in philosophical theology.

620. Seminar in Metaphysics. 3 hrs. Classical and contemporary metaphysics will be examined. Modern criticism by logicians, analytic philosophers, and philosophers of science will be presented.

625. Seminar in Modern Philosophy. 3 hrs. A critical investigation of the writings of selected modern and contemporary philosophers.

630. **Seminar in Epistemology.** 3 hrs. Advanced study of issues concerning the theory of knowledge.

635. **Ethics.** 3 hrs. An advanced study of issues and problems in moral philosophy.

636. **Major Philosopher.** 3 hrs. An advanced study of the contributions of a selected philosopher.

681. **Departmental Seminar.** 1 hr. Repeatable up to a total of three semester credit hours.

692. **Special Problems.** 1-6 hrs. A problem study to be approved by the department chairman.

697. **Independent Study and Research.** 3 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

PHYSICAL EDUCATION (PED-730)

501. **Corrective, Adaptive, and Developmental Physical Education.** 3 hrs. Recognition of and corrective exercises for functional abnormalities.

504. **Motor Development.** 3 hrs. A study of the motor aspects of human growth and development processes.

505. **Governing Agencies for Competitive Athletics.** 3 hrs.

509. **Psychological and Sociological Aspects of Coaching.** 3 hrs. The analysis and study of human behavior patterns as they relate to athletics.

510. **Physical Education and Recreation for the Educationally Disabled and Other Behavioral Disorders.** 3 hrs. The development of concepts and knowledge of physical education programs for LD, MR, ED and other disorders.

511. **Physical Education and Recreation for the Crippled and Orthopedically Disabled.** 3 hrs. The development of concepts and knowledge for the development of physical education programs for CP, PH, respiratory and other health impaired individuals.

512. **Sports Programs for the Disabled.** 3 hrs. To acquaint the student with competitive programs and special techniques used in preparing the disabled for participation in competitive sports programs.

515. **Motor Development Project.** 3 hrs.

524. **Seminar in Elementary School Physical Education.** 3 hrs. Comprehensive readings and discussions of all aspects of elementary school physical education.

551. **Techniques of Teaching Stunts, Tumbling, and Use of Apparatus.** 3 hrs.

570. **Development of Athletic Attributes.** 3 hrs. The development and administering of strength, endurance, flexibility, reaction, speed, and agility programs.

571. **Practice Organization, Scouting and Communication Techniques.** 3 hrs. Daily practice plans, Scouting techniques, cinematography, instructional materials, techniques, and equipment for coaches.

577. **Seminar in Sports Medicine.** 1-3 hrs. A study of modern methods and techniques utilized in sports medicine as it relates to coaches, trainers, and team physicians.

590. **Physical Education and Recreation for the Handicapped.** 1-3 hrs.
676. **Athletic Seminar.** 3 hrs. An in-depth study and analysis to enhance professional growth in athletics as it relates to advanced skills and knowledge of coaching.
677. **Athletic Seminar.** 3 hrs. Continuation of PED 676. Topic vary.
680. **Research Techniques.** 3 hrs. Discovery and recognition of problems, evaluation of problems and procedures, types and techniques of research.
691. **Research I, II, III.** 3-9 hrs.
692. **Special Problems.** 3 hrs.
697. **Independent Study.** 1-6 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
698. **Thesis.** 1-6 hrs. for a total of 6 hrs.
701. **Advanced Physiology of Exercise.** 3 hrs. Circulatory, respiratory, nervous, and muscular system during and after physical activity.
702. **Physiology of Exercise Laboratory.** 2 hrs. Use and care of physiology laboratory equipment.
703. **Advanced Kinesiology.** 3 hrs. The application of anatomical and physiological principles of kinesiology to physical activity.
704. **Tests and Measurements in Physical Education.** 3 hrs. Tests of fitness, skills, and abilities. Administration and interpretation.
705. **Motor Learning.** 3 hrs. Physical and psychological variables essential to motor learning.
709. **Age Characteristics of Motor Skills.** 3 hrs. Analysis of activities and relationships to motor development.
720. **Problems of Administration in Physical Education.** 3 hrs. Staff, finance, facilities, programs, and other problems faced by administrators.
722. **Organization and Administration of Intramural and Extramural Activities.** 3 hrs.
723. **Principles of Teaching Physical Education.** 3 hrs. Developing concepts in teaching methods employing physiological and kinesiological principles.
742. **Problems of Curriculum in Physical Education.** 3 hrs. Fundamental principles and bases of curriculum construction.
744. **Foundations and Trends in Health and Physical Education.** 3 hrs.
750. **Facilities and Equipment in Physical Education.** 3 hrs. Planning for indoor, outdoor, and special facilities and in physical education.
770. **Administration of Athletics.** 3 hrs. Special emphasis on problems of the athletic director and coach in organizing and directing the athletic program through all levels of the educational structure.
771. **Special Athletic Problems-Football.** 3 hrs. Defining, analyzing, and solving specific athletic problems relating to the sport of football through study and research.
772. **Special Athletic Problems-Basketball.** 3 hrs. Defining, analyzing, and solving specific athletic problems relating to the sport of basketball through study and research.

773. Special Athletic Problems-Baseball. 3 hrs. Defining, analyzing, and solving specific athletic problems relating to the sport of baseball through study and research.

774. Special Athletic Problems-Track. 3 hrs. Defining, analyzing, and solving specific athletic problems relating to the sport of track through study and research.

775. Minor Sports. 2 hrs. Defining, analyzing, and solving specific athletic problems relating to minor sports through study and research.

791. Research. 1-9 hrs.

792. Special Problems. 3 hrs.

796. Practicum in Physical Education. 2-6 hrs.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

801, 802, 803. Physiological Effects of Motor Activity. 3-9 hrs.

804. Principles of Design and Construction of Test in Physical Education. 3 hrs.

840. Readings in Physical Education. 3 hrs. Extensive reading and discussion of physical education literature.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

PHYSICS (PHY-360)

555. Fluid Dynamics. 3 hrs. Prerequisites: PHY 350, MAT 385. A mathematical development of the physical principles governing fluid flow.

561. Modern Physics. 3 hrs. Prerequisites: PHY 361 and PHY 350. Electromagnetic waves, relativity, and quantum theory.

562. Modern Physics. 3 hrs. Prerequisites: PHY 361 and PHY 350. Quantum theory and wave mechanics.

564. Fundamentals of Solid State Physics. 3 hrs. Prerequisite: Permission. The basic physical processes which occur in solids and semiconductors.

565. Nuclear Physics. 3 hrs. Prerequisite: PHY 361. Nuclear binding forces, chain reaction, and the non-steady state reactor, radiation detection.

585. History and Literature of Physics. 3 hrs. A survey of the history of physics from ancient times, stressing the rise and fall of concepts.

601. Mechanics. 3 hrs. Prerequisite: Permission. A formal mathematical development of graduate level mechanics.

602. Electricity and Magnetism. 3 hrs. Prerequisite: Permission. A formal mathematical development of graduate level electricity and magnetism.

604. Physics for High School Teachers. 3 hrs. Prerequisite: Permission. Principles of physics designed to up-date the teacher's effectiveness in teaching physics.

605. Special Topics in Theoretical or Experimental Physics. 3 hrs. Prerequisite: Permission. Subjects depend upon current interest of students and staff.

610. Astronomy for Teachers. 3 hrs. Prerequisite: Permission. Solar-system and stellar astronomy.

640. Electron Optics and Its Applications. 3 hrs. Prerequisite: Permission. Electrostatic and magnetic lenses, electron microscopes.

650. Quantum Mechanics I. 3 hrs. Prerequisite: Permission. The Schroedinger

equation, operators and eigenfunctions, spherically symmetric systems.

651. **Quantum Mechanics II.** 3 hrs. Prerequisite: Permission. Scattering theory, matrix mechanics, angular momentum, perturbation theory.

689. **Seminar I.** 1 hr. Prerequisite: Permission. Study of current literature in physics supplemented by laboratory research.

689. **Seminar II.** 1 hr. Prerequisite: Permission. Study of current literature in physics supplemented by laboratory research.

689. **Seminar III.** 1 hr. Prerequisite: Permission. Study of current literature in physics supplemented by laboratory research.

689. **Seminar IV.** 1 hr. Prerequisite: Permission. Study of current literature in physics supplemented by laboratory research.

691. **Research in Physics.** 1-6 hrs.

697. **Independent Study and Research.** 1-6 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hours.

POLITICAL SCIENCE (PS-280)

501. **Political Socialization.** 3 hrs. An analysis of the American political system on an advanced level.

502. **Urban Politics.** 3 hrs.

504. **The Legislative Process.** 3 hrs.

506. **American Political Parties and Pressure Groups.** 3 hrs.

507. **Mississippi Government.** 3 hrs.

508. **The American Presidency.** 3 hrs. An analysis of the selection, role, power, and performance of the presidency.

509. **Southern Politics.** 3 hrs. An examination of the politics and political culture of the southern states.

520. **Political Theory to Locke.** 3 hrs.

521. **Political Theory Locke to Present.** 3 hrs.

525. **American Political Theory.** 3 hrs.

531. **International Organization.** 3 hrs.

532. **Foreign Policies of the Major World Powers.** 3 hrs.

534. **Latin America in World Affairs.** 3 hrs. A study of hemisphere relations, with emphasis on the United States and Latin America, bilaterally and multilaterally.

535. **Comparative Foreign Policy.** 3 hrs.

550. **Comparative Studies in European Politics.** 3 hrs.

551. **Soviet Government and Politics.** 3 hrs.

552. **The Political Systems of Great Britain and the Commonwealth.** 3 hrs.

553. **Governments and Politics in the Middle East.** 3 hrs.

555. **Governments and Politics in Tropical Africa.** 3 hrs.

556. **Latin American Governments and Politics.** 3 hrs.

558. **Latin American Political and Economic Development.** 3 hrs.

- 571. **Public Personnel Administration.** 3 hrs.
- 572. **Organization and Management.** 3 hrs.
- 573. **Public Policy.** 3 hrs.
- 574. **Government Budgetary Process.** 3 hrs. Facets of budgetary administration, emphasizing federal and municipal budgets, theory and process.
- 580. **United States Constitutional Law.** hrs.
- 581. **The American Judicial Process.** 3 hrs.
- 582. **Comparative Judicial Politics.** 3 hrs. Prerequisite: PS 580 or PS 581 or consent of instructor.
- 584. **Administrative Law.** 3 hrs. An introduction to the field of administrative law including the analysis of substantive law which administrative agencies produce as well as the body of requirements that control administrative activities and processes.
- 585. **International Law.** 3 hrs.
- 589. **U.S. Supreme Court and Civil Liberties.** 3 hrs. An analysis of the role of the U.S. Supreme Court in protecting individual rights. Primary focus is on litigation involving provisions of the Bill of Rights.
- 691. **Research in Political Science.** 1-9 hrs.
- 692. **Special Problems.** 1-3 hrs. arr. The student works individually on a paper in political science under the supervision of a graduate faculty member.
- 693. **Internship in Political Science.** Hrs. arr. Departmental approval required. Student will work with an employer acting in the public sector in order to form practical experience in political and public affairs.
- 697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
- 698. **Thesis.** 1-6 hrs. for a total of 6 hrs.
- 700. **Seminar in U.S. Government.** 3 hrs. May be taken twice for credit. Prerequisite: Course in American national, state, and local government or consent of instructor.
- 710. **Readings Seminar in Political Science.** 3 hrs. A study of political science literature emphasizing interpretation and criticism.
- 720. **Scope and Methods.** 3 hrs. A survey of the scope of political science and of the tools and methods utilized in the discipline.
- 721. **Seminar in Political Theory.** 3 hrs. May be taken twice for credit.
- 723. **Communist Ideology.** 3 hrs. A critical study of materials from the basic writings of Communist thinkers: Marx, Lenin, Stalin, and with attention to modification made from period to period.
- 730. **Seminar in U.S. Foreign Relations.** 3 hrs. May be taken twice for credit. Prerequisite: Another course in U.S. foreign policy or history of U.S. foreign policy or permission of instructor. A survey of current United State foreign policies and problems.
- 731. **Seminar in International Relations.** 3 hrs. May be taken twice for credit. An intensive survey and analysis of the methodology, literature, and substance of the process of trans-state politics.
- 750. **Seminar in Comparative Government and Politics.** 3 hrs. May be taken

twice for credit. Prerequisite: One or more courses in comparative government or permission of the instructor. A research-type course in which each student will make an intensive study of the political institutions of one country, or of a group of countries having similar governments.

751. Seminar in Latin America. 3 hrs. May be taken twice for credit. Prerequisite: Two Latin American political science or history courses at the 500 level or permission of the instructor. A research-type course in which each student will make an intensive inquiry into Latin American governments and politics.

770. Seminar in Public Administration. 3 hrs. May be taken twice for credit.

781. Seminar in Public Law. 3 hrs. May be taken twice for credit. Prerequisite: A course in constitutional law or consent of the instructor. A research course in which the students examine in depth various aspects of the judicial system and its relationship to other elements in the political process.

791. Research in Political Science. 1-9 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 1-3 hrs.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

POLYMER SCIENCE (PSC-370)

(Please see FORENSIC SCIENCE-FSC-375)

512. Introduction to Macromolecules. 3 hrs. An introduction to the chemistry and physics of natural and synthetic high polymers.

570. Surface Coatings. 4 hrs. Study of the physical and chemical properties of the pigments, binders, solvents, and additives employed in surface coatings formulations, paint formulation, dispersion techniques, surface preparation, paint testing, non-polluting application techniques, and surface coatings formulations analysis.

570-L. Laboratory for PSC 570. 1 hr.

580. Polymer Kinetics and Reactor Design. 3 hrs. Introduction to polymerization kinetics and reactor design.

691. Research in Polymer Science. 1-9 hrs.

697. Independent Study and Research. 1-9 hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

701, 702. Advanced Polymer Science. 4 hrs., 5 hrs. An indepth study of polymer forming reactions, their scope and limitation(s). Relationships between molecular weight, polymer structure, and physical properties of polymers are established.

710. Advanced Physical Polymer Science I. 5 hrs. To include such topics as light scattering, end group analysis, osmometry, polymer fractionation, MNR, I.R., U.V., and visible spectroscopy, thermoanalytical evaluation and mass spectrometry.

711. Advanced Physical Polymer Science II. 4 hrs. A study of polymer chain

conformation, macromolecular solutions, molecular weight distribution, morphology, rheology, structure-property relationships, and kinetics of addition-, condensation-, and co-polymerization.

720, 721. **Polymer Techniques I, II.** 2 hrs., 2 hrs. Laboratory methods of polymer synthesis, structural determination, and characterization.

720-L, 721-L. **Laboratory for PSC 720, 721.** 1 hr., 1 hr.

732. **Copolymerization.** 3 hrs. Prerequisite: Permission of instructor. Methods of controlling copolymer compositions, characterization, and utilization of copolymer compositions.

770, 771. **Organic Coatings.** 3 hrs., 3 hrs. A systematic study of the science of surface coatings.

780, 781. **Selected Topics.** 3 hrs., 3 hrs. To include a survey of such topics as thermally stable polymers, silicone elastomers, emulsion polymers, controlled biocide release from polymers and water-soluble high molecular weight polymers.

789. **Polymer Science Seminar.** 1-4 hrs.

791. **Research.** Hrs. arr. 1-9 hrs.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

PSYCHOLOGY (PSY-175)

518. **History and Systems of Psychology.** 3 hrs. Prerequisite: Permission of the instructor. Review of the history of psychology and intensive study of current systems of psychology.

520. **Sensation and Perception.** 3 hrs. Prerequisite: PSY 320. A survey of sensory and perceptual processes with emphasis on the visual system.

522. **Psychology of Learning.** 3 hrs. Prerequisite: PSY 320. Basic problems, theories, and research in the areas of human and animal learning.

524. **Animal Behavior.** 3 hrs. Prerequisite: PSY 320. The study of animal behavior with special emphasis on the comparison of psychological processes along the phylogenetic scale.

526. **Physiological Psychology.** 3 hrs. Prerequisite: PSY 110. Relationship between physiological functions and behavior.

536. **Abnormal Psychology.** 3 hrs. Prerequisite: Permission of the instructor. Study of the major psychoses, and psychoneuroses, and mental deficiency.

550. **Social Psychology.** 3 hrs. Prerequisite: PSY 110. Study of the individual in group situations, and the influence of the social environment of his behavior and development.

551. **Industrial Psychology.** 3 hrs. Prerequisite: PSY 110. Applications of psychological principles and methods to problems of industry.

555. **Psychology of Personality.** 3 hrs. A study of the factors involved in the development of the mature personality.

556. **Psychology of Aging and Death.** 3 hrs. Study of problems and attitudes concerning aging and death.

562. **Psychological Measurement.** 3 hrs. Prerequisite: PSY 110 and 360 or

equivalent. Theory, problems, and techniques of psychological measurement.

620. Advanced Experimental Psychology. 2 hrs. May be taken twice for credit. Critical evaluation of and use of a variety of experimental techniques. Each student conducts an original study.

691. Research in Psychology. 1-9 hrs.

692. Special Problems I, II, III. 1-3 hrs.

694. Seminar in Problems in Contemporary Psychology I, II, III. 1 hr. Limit of three semester hours.

697. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Students not in residence but actively working on a thesis and consulting with the major professor or using University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

710. Philosophy of Science. 3 hrs. A study of scientific methodology, theory, construction, and system building in modern psychology.

721. Research Evaluation in the Behavioral Sciences. 3 hrs. Seeks to develop skill in evaluating the methodological soundness and usefulness of behavioral science research.

722. Experimental Design. 3 hrs. A study of the rationale underlying the selection of appropriate design for experimental work and the analysis and interpretation of results.

723. Comparative Psychology. 3 hrs. An examination of methodology employed in animal research, and results of experimentation in the area of animal behavior.

724. Physiological Psychology. 3 hrs. Study of neurophysiological mechanisms in behavior and related problems.

725. Motivation. 3 hrs. Prerequisite: EPY 720 or EPY 721. A study of the current theories and research in the area of human and animal motivation.

726. Perception. 3 hrs. Prerequisite: Permission of the instructor. The development and nature of human perception.

728. Advanced Experimental Psychology I, II, III. 3-9 hrs. For graduate students who wish to conduct publishable research not a part of a graduate thesis. Limit of 9 semester hours.

733. Psychological Externship. 1-3 hrs. To be taken concurrently with PSY 736 or PSY 782. Open only to psychology majors, and with permission of the instructor. Supervised clinical experience in community and hospital settings. Limit of 15 semester hours.

734. Principles of Behavior Modification. 3 hrs. Prerequisite: Permission of instructor. Study of the principles of behavioral change and the evaluation of clinical research in behavior modification.

735. Clinical Psychology. 3 hrs. Prerequisite: Permission of the instructor. Survey course to acquaint the student with the field of clinical psychology, personality diagnosis, psychotherapeutic techniques, and research.

736. Pre-Practicum in Clinical Psychology. 1-3 hrs. Prerequisite: PSY 738, 787, or 788 and permission of the instructor. Open only to psychology majors planning to enter the clinical field.

737. Administration, Supervision, and Consultation in Psychology. 3 hrs. Prerequisite: Permission of the instructor. Required for clinical doctoral students. Techniques of administration, supervision, and consultation in a mental health setting.

738. Introduction to Personality Assessment. 1-3 hrs. Prerequisite: Permission of instructor. The use of various psychological tools, including objectives and objective devices.

739. Personality Assessment. 3 hrs. Prerequisites: PSY 738 and permission of instructor. The selection, administration, and interpretation of tests used in assessment of personality.

742. Seminar in Case Studies. 3 hrs. Prerequisite: Permission of the instructor and 9 hours of psychological testing courses.

750. Advanced Social Psychology. 3 hrs. Examination of contemporary theory and research of group influence on the individual.

751. Personnel and Industrial Psychology. 3 hrs. Intensive study of selected problems in industrial and personnel psychology.

752. Management Training and Development. 3 hrs. Study of the principles and techniques of management appraisal and training.

755. Personality. 3 hrs. Consideration of the major theories of personality, and research on the development and measurement of personality.

762. Research Methods: Descriptive Statistical Methods. 3 hrs. Prerequisite: PSY 360 or permission of the instructor. Hypothesis testing, correlation, multiple correlation and regression.

763. Research Methods: Significance Tests and Experimental Design. 3 hrs. Prerequisite: PSY 762 or permission of the instructor. Experimental design and analysis of variance.

764. Factor Analysis. 3 hrs. Methods of multivariate analysis, emphasizing methods of factor analysis and cluster analysis.

768. Advanced Psychological Measurement. 3 hrs. Prerequisite: PSY 762 (PSY 462 or 562 is recommended.) An intensive study of the theory and techniques of psychological measurement.

777. Psychopathology of Childhood. 3 hrs. An in-depth survey of the major types of behavior disorders of children.

778. Experimental Child Psychology. 3 hrs. Prerequisite: Permission of the instructor. An intensive study of theory, methodology, and research in child psychology.

779. Seminar in Developmental Psychology. 3 hrs. Prerequisite: Permission of the instructor. Consideration of specific contemporary problems and issues in developmental psychology. May be taken for a total of 9 semester hours.

780. Advanced Psychopathology. 3 hrs. Prerequisite: Permission of the instructor. Intensive study of personality dynamics as related to aberrant behavior, with emphasis on current research.

782. Clinical Psychology Practicum I, II, III. 3 hrs. Prerequisite: Permission of the instructor. Open only to psychology majors at the doctoral level. Psychodiagnostics, selection and application of appropriate therapeutic programs.

784. Systems of Psychotherapy. 3 hrs. Prerequisite: Permission of the instructor. An analysis of the theories and techniques of current systems of psychotherapy.

785. **Group Dynamics.** 3 hrs. A study of the theory and practice of group dynamics and group therapy, with emphasis on clinical groups.

787. **Individual Psychological Testing: Stanford-Binet.** 3 hrs. Prerequisite: Approval of department chairman or instructor. Supervised study of the use of the Stanford-Binet, Form L-M.

788. **Individual Psychological Testing: Wechsler Scales.** 3 hrs. Prerequisite: Approval of departmental head or instructor. Supervised study of the use of the Wechsler Scales.

791. **Research in Psychology.** 1-9 hrs. Prerequisite: Permission of the instructor.

796. **Internship in Clinical Psychology.** 4 hrs. Credit may not be applied toward a graduate degree. Prerequisite: Successful completion of PSY 782 and approval of the clinical faculty. Required calendar year of internship in mental health setting approved by the American Psychological Association.

797. **Independent Study and Research.** 1-9 hrs. Not to be counted as credit toward a degree Student not in residence but actively working on a dissertation and consulting with the major professor or using University facilities must enroll in this course.

898. **Dissertation.** 1-6 hrs. for a of 6 hrs.

RADIO-TELEVISION-FILM (RTF220)

See Course Listing Under Communication, page 161.

REAL ESTATE AND INSURANCE (REI-617)

534. **Income Property Valuation.** 3 hrs. Emphasis on the income approach to real estate valuation.

560. **Real Estate Development.** 3 hrs. An analysis of real estate development in the private sector.

640. **Seminar in Urban Land Analysis.** 3 hrs. Economic, social, and political influences on housing, location, and land use are discussed.

650. **Real Estate Investment Analysis.** 3 hrs. Deals with theoretical, analytical and practical framework in which real estate investment decisions are made.

RECREATION (REC-735)

510. **Physical Education and Recreation for the Educationally Disabled and Other Behavioral Disorders.** 3 hrs. The development of concepts and knowledge of Physical Education and Recreation Programs for L.S., M.R., and E.D.

511. **Physical Education and Recreation for the Crippled and Other Health Impaired.** 3 hrs. The development of concepts knowledge for programs for C.P. and P.H. individuals.

512. **Sports Programs for the Disabled.** 3 hrs. Competitive sports programming and special techniques for preparing disabled individuals for participation.

513. **Organization and Administration of Public Recreation.** 3 hrs. The organization and administration of public recreation agencies and their policies.

515. **Business Procedures for Parks and Recreation.** 3 hrs. Specific business

procedures and administrative policies and forms related to recreation-related agencies.

517. Park Management and Operation. 3 hrs. The operational techniques and managerial principles necessary for the efficient administration of parks and outdoor facilities.

522. Youth Service Programs. 3 hrs. The responsibilities, relationships, organization, administration, and activities of youth agencies.

524. Community Playgrounds Programs and Operation. 3 hrs. Administration, programs, and operation of playgrounds and community centers.

526. Community-School Recreation. 3 hrs. Overview of community recreation with particular emphasis on the inter-relationships and involvement of the public schools.

532. Environmental Aspects of Recreation. 3 hrs. Study of the inter-relationships between recreation and available resources.

534. Park Development and Design. 3 hrs. Basic application of design and planning concepts to outdoor recreation areas and facilities.

536. Park and Recreational Planning. 3 hrs. The fundamental principles and methodologies necessary for dealing with proper identification, allocation, and use of resources in recreational planning.

541. Resources Management and Policy. 3 hrs. Techniques, procedures, and policies affecting management of natural resources. Emphasis given to proper land utilization, environmental protection, and user satisfaction.

543. Outdoor Education. 3 hrs. A study of outdoor education, specifically its philosophy, programs, methods, and resources.

547. Interpretation of Cultural and Natural Resources. 3 hrs. The interpretive process as applied to natural and cultural resources, with emphasis on educational/recreational aspects.

551. Therapeutic Recreation Programming. 3 hrs. Study of the organization, programming, and special conduct of recreational programs and activities in institutions.

552. Gerontology and Recreation for Later Years. 3 hrs. The aging process and the special recreational needs, problems, opportunities, and activities of older people.

590. Physical Education and Recreation for the Handicapped. 3 hrs. Designed to acquaint individuals with the theoretical aspects of and the practical application of physical education and recreation for the handicapped.

591. Recreation Education for Teachers. 3 hrs. Programs and benefits of recreation and leisure for the motivation of leaders who are serving or may serve in educating individuals of all ages.

592. Outdoor Recreation Seminar. 3 hrs. Practical and philosophical introduction to the use of outdoors, educational and community programs.

680. Research Techniques. 3 hrs. Discovery and recognition of problems, evaluation of problems and procedures, types and techniques of research.

691. Research. 1-9 hrs.

692. Special Problems. 1 hr.

694. Field Problems. 1-6 hrs. Prerequisite: Permission of department chairman. Practical experiences dealing with problem situations in the field and related

institutional settings.

696. **Practicum.** 1-6 hrs. arr.

697. **Independent Study and Research.** Hrs. arr. No credit toward a degree. Student not in residence but who are actively working on a thesis and consulting with a major professor or using the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

701. **Problems and Emerging Trends in Recreation.** 3 hrs. Problems and emerging trends related to recreation with emphasis on problem solving and evaluation.

702. **Research and Evaluation in Parks and Recreation.** 3 hrs. Designed to develop knowledge and understanding relative to research methods most utilized in recreation.

703. **Philosophical Foundations of Recreation.** 3 hrs. Prevailing concepts, theories, and professional philosophies affecting recreation.

704. **Special Field Studies in Recreation.** 3 hrs. Encompasses the application of various theories to realistic field situations and pertinent areas of concern.

740. **Forest Recreation.** 3 hrs. The background, evolution, and contemporary practices in forest-related outdoor areas, facilities, and programs.

790. **Seminar in Recreation.** 3 hrs. A seminar course pertaining to selected current professional topics in all areas of recreational study.

RELIGION (REL-288)

ANT 512. **Mythology and Folklore.** (May be taken for credit as a religion course.)

ANT 534. **Primitive Religion.** (May be taken for credit as a religion course.)

535. **Religions of the Near East.** 3 hrs. A study of Judaism, Zoroastrian, and Islamic literature and thought.

536. **Mysticism.** 3 hrs. A study of the major themes and issues of religious mysticism-East and West.

537. **Religions of the Far East.** 3 hrs. A study of Hinduism, Buddhism, Taoism, Confucianism, and Shintoism.

590. **Contemporary Religious Problems.** 3 hrs. An examination of specific problems within the broad spectrum of contemporary religious concern.

RESEARCH AND FOUNDATIONS (REF-125)

536. **Designing Educational Systems for Individualized Instruction.** 3 hrs. Translation of instructional specifications into prototype systems.

590. **Classroom Use of Instructional Television.** 3 hrs. Planning, organizing, presentation, and use of instructional television. Emphasis on Mississippi's state program.

601. **Research: Its Introduction and Methodology.** 3 hrs. Methods of scientific inquiry, selection of a research topic, principles of reporting research, and functional statistical concepts.

602. **Introduction to Educational Statistics.** 3 hrs. Basic concepts and computations in descriptive statistics. Introduction to sampling procedures and inferential processes in educational research.

604. Foundations in American Education. 3 hrs. A brief survey of the philosophical, psychological, sociological, and historical foundations of American education.

605. Cultural Influences on American Education and Society. 3 hrs. A study of European educational systems.

607. Basic Course in Curriculum Development. 3 hrs. An examination of factors influencing planning and procedures for structuring and evaluating curricular experiences.

615. Student Discipline in the Schools. 3 hrs. Presentation of general principles, techniques, procedures, and legal aspects of discipline.

619. Utilization, Selection, and Preparation of Audiovisual Material. 3 hrs. Principles and procedures for selecting, utilizing, and preparing audiovisual materials. Emphasis is on practical application.

620. Foundations of Education Technology. 3 hrs. Uses of research findings in the development of technology. Includes a survey of the historical aspects of educational media.

630. Organization and Administration of Media Programs. 3 hrs. Prerequisite: REF 416, 619, or consent of instructor. Considers problems in management of the media program. Emphasis on organizing, staffing, and financing media series use of evaluation standards.

632. Measuring Results in Education. 3 hrs. Emphasis on selecting and constructing various types of achievement tests and statistical interpretation of data.

644. Instructional Development I. 3 hrs. Prerequisite: REF 619 or permission of the instructor. Survey of various instructional development models for the development, revision, or revitalization of educational programs.

645. Computers in Education. 3 hrs. Applications of computer technology to instructional, information, and administrative programs from the user's point of view.

646. Photography in Instructional Settings. 3 hrs. Prerequisite: JOU 140 or permission of instructor. Provides educators with knowledge and skills required for photography in instructional settings.

647. Advanced Utilization of Audiovisual Materials. 3 hrs. Prerequisite: REF 416 or 619 or permission of instructor. To provide competence in utilizing a wide variety of media formats. Evaluation of materials, sources, and educational products is employed.

660. Economic Education for Teachers. 3 hrs. Emphasis on in-depth understanding of our economic system and intergration of economic concepts into the social studies.

680. Direction and Supervision of Student Teaching. 3 hrs. Designed to guide supervising teachers in orienting and involving student teachers.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit deferred until thesis is completed.

701. Analysis of Teaching Behavior. 3 hrs. Designed to analyze teacher behavior to determine competency, including interaction analysis and microteaching skills.

709. Social Foundations of Education. 3 hrs. A study of contrasting motivations and values of various cultural groups and their implications for education.

712. Computer Applications in Educational Research. 3 hrs. Prerequisites:

REF 761, 762. Skills development course in computer analysis of behavioral science data, systems analysis, financial, and personnel accounting procedures.

718. **Practicum in Educational Research.** 3 hrs. Prerequisites: REF 761, 762. Application of appropriate research models, structure of research reports, critique of published research and of student's research problem.

720. **Measurement in Educational Research.** 3 hrs. Prerequisites: REF 761, 762. Survey of the theory of measurement including true score theory, reliability, validity, item analysis, and item selection techniques.

735. **Advanced Production Techniques.** 3 hrs. Prerequisite: REF 619 and 646, or permission of instructor. Theories and practices involved in planning and producing audiovisual materials.

740. **Programmed Instruction.** 3 hrs. Theories and techniques in designing, producing, and evaluating programmed instructional materials.

741. **Instructional Graphics.** 3 hrs. Prerequisite: REF 416 or 619 or permission of instructor. Presents skills required in the production of various visual media for instruction.

742. **Research in Instructional Systems Technology.** 3 hrs. Research in problems of formulating objectives, analyzing audiences, using media, and evaluating education outcomes.

743. **Educational Television Production.** 3 hrs. Provides knowledge and skills required in supervising and producing instructional television programs.

761. **Educational Research: Significance Tests and Statistical Methods for Experimental Design.** 3 hrs. Prerequisite: REF 602 recommended. Probability theory and theoretical distributions in experimental design. Techniques including tests, simple and complex analysis of variance, analysis of co-variance.

762. **Educational Research: Advanced Regression Methods.** 3 hrs. Prerequisite: REF 761. Correlation and regression theory. Techniques associated with bivariate, partial, and multiple correlation and applied multiple linear regression.

770. **Evaluation Design and Methodology.** 3 hrs. The principles of evaluation. Involvement in a practical evaluation problem employing measurement techniques and statistical methodology.

791. **Field Problems in Educational Research.** 1-12 hrs. Prerequisite: Approval of major professor and Educational Research Staff.

792. **Special Problems in Education Research I, II, III.** 1 hr. each. Prerequisite: Approval of major professor and Educational Research Staff. Application of specific research procedures in the development of skills in various types of research. The preparation of a scholarly paper is required.

794. **Field Problems.** 3 hrs.

798. **Specialist Thesis.** 3 hrs. Selection and development of a practical educational research problem for the specialist's degree. A scholarly research paper is required.

810. **Design and Methodology in Institutional Research.** 3 hrs. Prerequisites: REF 601, 761, 762. Practical application of institutional research design and methodology emphasizing computer utilization and field work.

816. **History of Public Education in the United States.** 3 hrs. A critical study of the evolution of public education with emphasis on critical issues.

818. **Comparative Philosophies of Education.** 3 hrs. A critical examinations of theoretical concepts of leading modern philosophers and their implications for

education.

820. Comparative Education. 3 hrs. Survey of educational patterns of selected countries.

824. Research Design in Educational Research. 3 hrs. Prerequisites: REF 761, 762. Experimental and quasi experimental designs in educational research. Emphasis upon utilization of design principle and appropriate statistical treatment.

830. Multivariate Analysis in Educational Research. 3 hrs. Prerequisites: REF 761, 762. Theory and application of multiple regression and discriminant analysis, canonical correlation, multivariate analysis of variance and covariance.

893. Advanced Educational Research. 3 hrs. Seminar in types and problems of educational research, observation and data collection methods, and standards of reporting educational research.

SCIENCE (SCI-394)

650. Communication Engineering Fundamentals. 3 hrs. Prerequisites: Permission. The basic concepts of components and systems which provide electrical communications.

651. Communications Theory. 3 hrs. Prerequisite: SCI 650. Signal representation, electrical systems response, and analog and digital modulation techniques.

652. Technical Systems Management. 3 hrs. Prerequisite: SCI 651. The analysis of technical performance of voice and data communications systems.

653. The Computer and Communications. 3 hrs. Prerequisite: SCI 651. Digital computer hardware, software, and the interrelationship of the computer with the telecommunications system.

SCIENCE EDUCATION (SCE-330)

532. Science for Elementary Teachers. 3 hrs. Prerequisites: 12 semester hours of science. Designed to provide experience in presenting scientific principles to the elementary school child.

535. Marine Science for Elementary Teachers. 3 hrs. Prerequisite: Permission of instructor. Designed to acquaint teachers with marine science concepts.

541. Methods of Teaching the Metric System. 3 hrs. Lectures and exercises in measurements using the International System of Units.

553. Earth and Environmental Science for Intermediate School Teachers. 3 hrs. Prerequisite: Permission of instructor. To familiarize teachers with the materials, methods, and techniques of earth and environmental science.

554. Biological Sciences for Intermediate School Teachers. 3 hrs. An examination of the subject matter, techniques, and methods of teaching the life sciences.

555. Physical Science for Intermediate School Teachers. 3 hrs. An examination of the subject matter, techniques, and methods for teaching the physical sciences.

556. Techniques in Marine Science Education. 3 hrs. Prerequisite: Permission of instructor. Designed to acquaint teachers with the marine resources of the Mississippi Coastal Zone.

557. Marine Science for Teachers. 3 hrs. Prerequisite: Permission of instructor. Emphasis will be placed on measurements and analysis of the marine habitat and ecological relationships.

570. Biology for Secondary Teachers. 3 hrs. Prerequisite: Biology

background. A survey of the philosophy, techniques, and methods of teaching biology.

571. Chemistry for Secondary Teachers—Methods and Techniques. 3 hrs. Prerequisite: Permission of instructor. Course designed to familiarize chemistry teachers with materials, methods, and techniques of teaching chemistry.

572. Physics for Secondary Teachers—Methods and Techniques. 3 hrs. Prerequisite: Permission of instructor.

698. Thesis. 1-6 hrs. for a total of 6 hrs.

700. Science Curriculum in the Public Schools. 3 hrs. Prerequisite: SCE 703. An examination of elementary and secondary science curricula.

701. Problems in Science Teaching. 3 hrs. Prerequisite: Permission of instructor. Study of problems related to curriculum, methodology, activities, professionalism, and evaluation in science teaching.

702. Field Techniques of Demonstrating and Experimenting with Scientific Principles. 3 hrs. For science teachers considering fundamental aspects of biology, chemistry, geology, and physics.

703. Foundations of Science Education. 3 hrs. Prerequisite: Permission of instructor. Study of philosophical premises, the nature of science, psychological and pedagogical theories.

730. Physics for Elementary School Teachers. 3 hrs. Prerequisites: 6 hours in physical science and 6 hours in biological science. Principles and general ideas that can be directly applied to the elementary grades.

731. Chemistry for Elementary School Teachers. 3 hrs. Prerequisites: 6 hours in physical science and 6 hours in biological science. Chemical principles that represent the changes in chemistry that have taken place over the last two decades.

732. Biology for Elementary School Teachers. 3 hrs. Prerequisites: 6 hours in physical science and 6 hours in biological science. A study of content, techniques, and methods of teaching life science concepts.

733. Earth Science for Elementary School Teachers. 3 hrs. Prerequisites: 6 hours in physical science and 6 hours in biological science. A study of techniques and methods of teaching earth science concepts.

789. Seminar. 1 hr. Discussion of current trends and practices in science education.

791. Research in Science Education. 1-9 hrs.

792. Special Problems. 1-3 hrs. arr.

797. Independent Study and Research. 1-9 hrs. Not to be counted as credit toward a degree. Student who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. Research Problem. 3 hrs.

898. Dissertation. 1-6 hrs. for a total of 6 hrs.

SOCIAL WORK (SWK-020)

Foundation

610. Theories of Individual and Family Functioning. 1-3 hrs. *Selected theory, principles, and research on individual and family functioning in the social environment.

612. Theories of Social Change in Societal Organizations, Communities, and Groups. 1-3 hrs.* Theories and principles of the functional and dysfunctional characteristics of social change in social institutions, communities, and groups.

615. Social Problems and Social Welfare. 1-3 hrs.* This course explores historical development, societal values, and the impact of social trends upon the evolution and growth of social welfare institutions.

617. Social Work Research I. 1-2 hrs.* Social work practice and research relationships; problem identification and formulation; design models; emphasis on evaluation and needs assessment research.

Core Practice Skills

631. Leadership in Social Work. 1-2 hrs.* Development of skills in the demonstration of effective leadership behavior, in task-oriented groups.

632. Social Policy I. 1-3 hrs.* Prerequisite: SWK 615. This course penetrates the domain of social policy theory and contemporary issues relative to selected major social policy(ies) and social services.

634. Cultural Components of Social Work Practice. 1-2 hrs.* Concepts of culture, cultural diversity and minority-majority relationships critical to social work practice.

635. Management and Administration I. 1-2 hrs.* Goal formulation, fund raising, budgeting, program development, planning, evaluation, public relations.

636. Social Work Practice with Groups, Communities, Organizations. 1-3 hrs.* The concepts and application of social work practice skills in intervening in social welfare institutions, communities, and groups.

637. Social Work Research II. 1-2 hrs.* Prerequisite: SWK 617. Data collection, organization, and analysis; research writing and investigator accountability.

638. Basic Communication Helping Skills. 1-3 hrs.* The use of self through verbal and non-verbal methods of communication in the exploration, understanding, and action phases of helping.

639. Social Work Practice with Individuals and Families. 1-3 hrs.* Emphasizes exploration, problem identification, social diagnosis, intervention methods, intervention techniques, resources, and evaluation.

*NOTE: These courses are offered for the maximum credit hours except in specific instances to be determined by advisement only.

Advanced Practice and Electives

NOTE: All advanced courses may not be offered in sequence. The decisions regarding offering of these courses are based on scheduling, needs, and resources.

640. Human Behavior and the Social Environment. 2 hrs. An exploration of selected topics in the area of interaction of human behavior and the social environment in a pluralistic society.

650. Social Work Practice with Families I. 2 hrs. Theory and skills for intervention with dysfunctional behaviors.

651. Time-Limited Intervention. 2 hrs. Prerequisite: SWK 638. Intervening techniques of task-centered intervention and crisis intervention in social work practice.

652. Impediments to Social Functioning in Middle and Late Life: Implications for Social Work. 2 hrs. Examination of potentially dysfunctional major events and changes occurring during the middle and late years of life; social service and practice

response to problems.

653. **Transactional Analysis in Social Work.** 2 hrs. Basic concepts of Transactional Analysis and their use in social work. Some experiential learning.

654. **Social Work Practice with Older Adults in Health Care Systems.** 2 hrs. Practice functions related to social aspects of prevention and treatment of health care modalities.

658. **Cognitive-Behavioral Approaches to Social Work Practice.** 3 hrs. Skills of problem identification, analysis and intervention using rational, reality and supportive theories.

659. **Social Conflict.** 2 hrs. Encourages recognition and appreciation of social conflicts involved in solving individual, family, organizational, and societal problems.

660. **Social Work Reporting and Communication Skills.** 2 hrs. The goal of this course is for students to learn to demonstrate the listening, reading, researching, reasoning, and logic skills necessary for the preparation of effective written communication.

661. **Selected Social Work Roles.** 2 hrs. Development of basic skills in advocate, broker, outreach worker, and mobilizer roles.

663. **Consultation and Supervision.** 2 hrs. Concepts and skills relating to administrative, educational, and helping functions of consultants and supervisors in formal service delivery organizations.

665. **Social Work and the Law.** 2 hrs. An exploration of the interrelationships between social work and the law.

666. **Community Organization and Development.** 2 hrs. The principles and skills needed for intervening in underdeveloped and dysfunctional communities.

667. **Social Policy II.** 2 hrs. Prerequisite: SWK 632. Focuses on formulation, analysis, planning and programming.

668. **Group Treatment.** 2 hrs. Concepts and skills related to group work practice, with special focus on groups formation, assesment, intervention assessment, intervention strategies, and termination.

670. **Research and Evaluation.** 3 hrs. Basic processes of empirical research and program evaluation with reference to social work needs and settings.

671. **Field Education.** 8-9 hrs. A four-day per week practicum to demonstrate skills learned in class and those to be practiced in a given agency. Includes integrative seminar.

679. **Individual Study in Mental Health and Retardation.** 2 hrs. Permission of instructor required. Traditional concepts for practice in mental health and retardation. Self-instructional with some group meetings. Papers and examination.

681. **Death and Dying.** 2 hrs. This course will explore viewpoints of death and techniques of social intervention with the dying person.

686. **Social Work Practice in Mental Health and Retardation.** 2 hrs. Problems, policy, services, and evaluation in mental health/retardation. Permission of instructor required.

687. **Social Work Practice in Public Social Services.** 2 hrs. Attempts to synthesize advanced practice skills with poverty level consumers.

689. **Social Work Practice in Health Settings.** 2 hrs. Medical data, terminology, social work skills as practiced in health settings (hospitals, etc.).

691. Research Practicum I. 2 hrs. Prerequisites: SWK 617 and 637 or equivalent content. Preparation of a proposal concurrent with and related to student's field instruction.

692. Speical Problems. 1-6 hrs. Problem study to develop knowledge and facility in area of interest. Paper or project required.

693. Social Work Practice with Families II. 2 hrs. Prerequisite: SWK 650. Neglect, abuse, and intervention with neglecting or abusing families; child welfare services; social policies affecting families.

694. Management and Administration II. 2 hrs. Prerequisite: SWK 635. Conceptualizing, planning, and evaluating social service programs using grant writing as the medium.

695. Research Practicum II. 2 hrs. Prerequisites: SWK 617, 637, 691, and permission of instructor. Conduct and report of proposed research in SWK 691.

699. Social Planning. 2 hrs. This course will focus upon the functions, techniques, and process of social planning.

SOCIOLOGY (SOC-292)

521. Special Sociological Topics. 3 hrs. Variable content; can be repeated three times in separate topical offerings.

524. Social Gerontology. 3 hrs. The social significance of age and aging through childhood, adolescence, maturity, and old age.

526. Sociology of Education. 3 hrs.

544. Juvenile Delinquency. 3 hrs. A study of causes and the nature of juvenile delinquency, the development of the juvenile court, probation, and other rehabilitative programs.

550. Social Foundations of Personality. 3 hrs. A treatment of the role of the social group and the cultural heritage in the development and functioning of the human personality.

560. Methods of Social Research. 3 hrs. A survey of elementary research techniques used in empirical social investigations.

561. Population. 3 hrs. Prerequisite: SOC 460. An introduction to demography, analyzing significant changes in population composition.

562. Methods of Social Research II. 3 hrs. Research designs, types of research, methods of observation and data collection, specialized techniques.

571. Social Institutions. 3 hrs. A detailed study of major American social institutions, their functions, interrelationships, and significant trends.

580. Advanced General Sociology. 3 hrs. An advanced course in general sociology giving expanded treatment to the basic sociological concepts and subject matter areas.

581. History of Social Thought. 3 hrs. An examination of early social thought, tracing the development of western thought and ideas from Hammurabi to Comte.

582. Sociological Theory. 3 hrs. A survey of the growth and development of sociological theory from Comte to the present.

620. American Community Life. 3 hrs. A study of the American community life and its social and cultural patterns.

640. Social Control and Social Change. 3 hrs. A study of the forms of social control. Independent research projects are reported to the class for discussion and evaluation.

670. Seminar in Sociological Theory. 3 hrs. A detailed study of the content and influence of selected major contributors to sociological theory.

671. Social Institutions. 3 hrs. An advanced course in social institutions. A study of the structure and function of the five basic institutions. Each student will select one for intensive study.

677. Seminar in Demography. 3 hrs. Designed to develop understanding of data and trends in world and national population and to provide basis for assessing demographic implications of social and scientific change.

681. Departmental Seminar I. 1 hr.

682. Departmental Seminar II. 1 hr.

683. Seminar III. 1 hr. arr.

692. Special Study Projects in Sociology. 1-6 hrs. (Tutorial). Special projects in reading, survey, or research in sociology. Work will be under the direction of graduate faculty.

697. Independent Study and Research. Hrs. arr. No credit toward a degree. Students not in residence but who are actively working on a thesis and consulting with a major professor or using the library or other University facilities must enroll in this course.

698. Thesis. 1-6 hrs. for a total of 6 hrs. Credit will not be recorded until thesis is accepted by the major professor.

792. Special Study Projects in Sociology. 1-6 hrs. for a total of 6 hrs. (above the master's level). Special projects in reading, survey, or research in sociology. Work will be under the direction of graduate faculty.

SPECIAL EDUCATION (SPE-190)

500. The Psychology and Education of the Exceptional Child. 3 hrs. An introduction to exceptional populations and procedures and policies relating to their education and citizenship.

501. Methods and Materials for the Multiply, Profoundly and Severely Handicapped. 3 hrs. Program and curricula development for children with severe learning problems to include the retarded, deaf-blind, and physical-medical deficiencies.

503. Educational Evaluation of Exceptional Children. 3 hrs. Basic principles underlying measurement and evaluation in education with emphasis on interpretation as it relates to exceptional children.

504. Problems in Special Education. 3 hrs. Study of the legal and administrative structure of special education; emphasizes types of classes, classroom management, and screening procedures.

511. Language Development for the Handicapped. 3 hrs. An introduction to Language processes and common deficits related to the handicapped.

520. Structure and Function of the Eye. 3 hrs. Identification, function, and care of the eye as it relates to the visually handicapped.

521. Methods and Materials in Teaching Visually Handicapped. 3 hrs. A study of practices commonly used in education programs, including Braille, space orientation, special materials, and organization.

522. Braille. 3 hrs. A skill course in communication through Type 2 Braille.

523. Teaching of Braille. 3 hrs. Prerequisite: SPE 422 or equivalent. Developing methods for teaching Braille to visually handicapped to include reading, mathematics, and production abilities.

524. Mobility Training for the Visually Handicapped. 3 hrs. An introduction to mobility, movement, and spatial awareness for the visually handicapped.

525. Psychology and Education of the Visually Handicapped. 3 hrs. A study of social-emotional and cognitive learning factors of the visually handicapped.

527. Physically Handicapped and Other Health Impaired. 3 hrs. A study of major handicapping conditions associated with physical and health impairments and their educational implications.

528. Methods for Teaching the Physically Handicapped and Other Health Impaired. 3 hrs. Educational programs, counseling techniques, and least restrictive alternative placements for the physically handicapped.

529. Curricula and Mobility Training for the Physically Handicapped. 3 hrs. General curricula development and specific demonstration and simulations in mobility training.

530. Learning Disabilities. 3 hrs. Prerequisite: SPE 500 or permission. A study of the social, emotional, physical, and learning characteristics of learning disabled.

531. Individual Programming for Educationally Handicapped: Pre-Academic Levels. 3 hrs. Methods and materials and individual educational planning for pre-academic level retarded, specific learning disabled and mildly emotionally disturbed.

532. Individual Programming for Educationally Handicapped: Elementary Levels. 3 hrs. Methods and materials and individual educational planning for elementary level retarded, specific learning disabled and mildly emotionally disturbed.

533. Individual Programming for Educationally Handicapped: Secondary and Adult Levels. 3 hrs. Methods and materials and individual educational planning for secondary retardation, specific learning disabilities and mild emotionally disturbed.

540. Mental Retardation. 3 hrs. Prerequisite: SPE 500 permission. A study of social, emotional, physical, and intellectual characteristics of the mentally retarded.

565. Characteristics of the Gifted and Talented. 3 hrs. Study of gifted populations to include characteristics, learning modes, and assessment procedures.

566. Basic Methods and Materials in Gifted/Talented Education. 3 hrs. Curricula building activities for teachers in programs for the gifted.

570. Organizational Procedures in Special Education. 3 hrs. Study of alternative modes in educating handicapped, legal aspects, and administrative policies and processes.

590. Workshop in Special Education. 3 hrs.

680. Advanced Practicum in Special Education. 3-9 hrs. Practicum for master's degree students unique to individual program plans. The practicum will be either in public school, institution, or clinical setting.

691. Research in Special Education. 1-9 hrs.

692. Special Problems. 1 hr. Examination of medical, sociological, biological, psychological, and institutional aspects of exceptional children.

694. Field Problems. 3 hrs.

700. Issues in Special Education. 1 hr. A study of current theories, models, programs, and reports in special education. Open to non-majors.

701. Problems in Special Education Research Design. 3 hrs. Primary emphasis is placed for graduate degree candidates to develop a prospectus for a field study or dissertation; includes research and design procedures.

703. Teaching Techniques/Curricula Laboratory in Special Education. 3 hrs. Curricula observations, module building, and simulations; includes materials laboratory work.

704. Perceptual-Motor Development for the Handicapped. 3 hrs. An investigation of perceptual motor behavior as it relates to child development.

709. Advanced Psycho-Educational Evaluation of the Exceptional Child. 3 hrs. Interpretation and application of measurement for exceptional children with emphasis on curriculum decision making. Open to non-majors.

730. Issues in Extreme Learning Disorders. 3 hrs. A theoretical and philosophical study of concepts related to neurological factors, dyslexia, and the autistic in learning disorders.

731. Advanced Methods in Learning Disabilities. 3 hrs. Study of developing individual program for specific learning disabilities. This course meets certification requirements.

740. Advanced Studies in Mental Retardation. 3 hrs. Problems of diagnosis and treatment. Investigation of current research, curricula design, and social emotional parameters are considered.

741. Vocational Education in Mental Retardation. 3 hrs.

743. Advanced Curriculum Studies for the Mentally Retarded. 3 hrs. Study of different approaches to curriculum development, with emphasis on materials and goals for teaching mentally retarded.

750. The Psychology and Education of the Emotionally Disturbed. 3 hrs. This course explores the characteristic of deviant behavior and its causation.

751. Problems and Methodologies for the Socially Maladjusted. 3 hrs. This course explores educational programs for the disadvantaged, delinquent, migrant, and other socially deviant groups.

752. Basic Curriculum for the Emotionally Disturbed. 3 hrs. A course investigating programs, methods and materials in the education of the emotionally disturbed child; the role of the teacher in relation to team.

760. Methods and Materials in Teaching the Gifted. 3 hrs. A study of programs, curricula, models, and methodologies for the intellectually advanced.

761. Curricula Development for the Gifted. 3 hrs. Curricula writing, module development, and attentive modes of instruction for gifted pupils.

762. Programming for the Atypical Gifted. 3 hrs. Study of individuals who display diverse modes of high achievement and creativity.

764. Practicum Gifted. 3 hrs. Practicum for advanced students with gifted students in public school or clinical settings.

770. Administration and Supervision of Program for Exceptional Children. 3 hrs. Designed for educators and supervisors of programs for exceptional children; organization and administration of programs for exceptional children.

791. Research in Special Education. 1-12 hrs. Prerequisite: Approval of the major professor.

792. Special Problems. 3 hrs.

794. Field Problems in the Administration of Special Education. 1-6 hrs. Participation in activities of an organization involved in administering or teaching special education. This may be at the state or local level.

797. Independent Study and Research. Hrs. arr. Not to be counted as credit

toward a degree. Students who are not in residence but who are actively working on a research problem or a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

798. **Specialist Thesis.** 3 hrs.

800. **Bio-Genetic Factors in Exceptional Children.** 3 hrs. Study of abnormal physical and behavioral factors associated with exceptionalities; therapies related to medical models.

801. **Teacher Education in Special Education.** 3 hrs. Development of programs, courses of study, observation techniques, models, micro-teaching units, modules in higher education.

802. **Service Units and Public Relations in Special Education.** 3 hrs. Inservice training units, conference planning, grant writing, workshop, parent and national organizations.

880. **Internship in Case Work and Guidance for the Exceptional Child.** 1-6 hrs. Individual cases are tested by students and all available information is integrated for diagnostic and educational purposes.

898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

SPEECH AND HEARING SCIENCES (SHS-296)

501. **Language and Speech Development.** 3 hrs.

502. **Anatomy and Physiology of the Hearing Mechanism.** 3 hrs.

503. **Anatomy and Physiology of the Speech Mechanism.** 3 hrs.

512. **Diagnostic Procedures in Speech Pathology I.** 3 hrs. Prerequisites: SHS 211, 411.

513. **Voice Disorders.** 3 hrs. Prerequisites: SHS 211, 403.

514. **Stuttering and Related Problems.** 3 hrs. Prerequisite: SHS 211 or equivalent.

515. **Speech and Language Disorders of the Cerebral Palsied.** 3 hrs. Prerequisites: SHS 211 and SHS 403 or equivalents.

516. **Adult Aphasia and Related Problems.** 3 hrs. Prerequisites: SHS 211 and SHS 403 or equivalents.

517. **Speech and Language Disorders Related to Cleft Palate.** 3 hrs. Prerequisites: SHS 211 and SHS 403 or equivalents.

518. **Advanced Clinical Methods.** 3 hrs.

519. **Organic Speech Disorders.** 3 hrs.

520. **Middle East Measurement.** 3 hrs.

521. **Aural Rehabilitation.** 3 hrs. Prerequisite: SHS 221 or equivalent.

522. **Diagnostic/Prescriptive Teaching of the Hearing Impaired.** 3 hrs.

523. **Basic Sign Language.** 2 hrs. For the Non-Education of the Deaf Major.

524. **Methods of Communicating with the Hearing Impaired.** 3 hrs. For Education of the Deaf majors only; may be repeated once for credit.

525. **Psycho-Social Factors Associated with Hearing Impairment.** 3 hrs. Prerequisite: Consent of instructor.

526. **Secondary School Methods and Curriculum for Hearing Impaired Children.** 3 hrs. Prerequisites: SHS 433, 438.

527. **Anatomy, Physiology and Research in Speech, Hearing and Language of**

the Hearing Impaired. 3 hrs.

528. **Clinical Audiology I.** 3 hrs. Prerequisite: SHS 221.

531. **Language Disorders I: Assessment of Children with Language Disorders.** 3 hrs. Prerequisite: SHS 401 or equivalent.

532. **Language Disorders II: Habilitation of the Aphasic Child.** 3 hrs.

533. **Developing Language Skills with the Hearing Impaired.** 3 hrs.

534. **Learning Strategies for the Multiply-Handicapped Hearing Impaired Child.** 3 hrs. Prerequisites: EPY 374, SPE 400, SHS 433, 437 or permission of instructor.

535. **Developing Oral/Aural Communication in Hearing Impaired Children.** 3 hrs.

536. **Developing Reading in the Hearing Impaired.** 3 hrs. Prerequisite: SHS 433 or consent of instructor.

537. **Introduction of Education of the Hearing Impaired.** 3 hrs.

538. **Problems in Academic Subjects for the Hard-of-Hearing and Deaf.** 3 hrs. Prerequisites: SHS 433, SHS 434, and SHS 436.

539. **Education of Preschool Hearing Impaired Children.** 3 hrs. Prerequisite: SHS 221. Practicum required.

601. **Designs in Research for Speech and Hearing.** 3 hrs.

602. **Current Topics in Speech Pathology.** 3 hrs.

612. **Neurophysiology of Speech and Languages.** 3 hrs. Prerequisite: Consent of instructor.

621. **Hearing Aids.** 3 hrs.

623. **Clinical Audiology II.** 3 hrs. Prerequisite: SHS 221 or equivalent.

625. **Audiological Instrumentation.** 3 hrs. Prerequisite: SHS 221 or equivalent.

626. **Pathologies of the Hearing Mechanisms.** 3 hrs. Prerequisites: SHS 221 and SHS 402 or equivalents.

633. **School Curricula for the Hearing Impaired.** 3 hrs. Prerequisites: SHS 433, 436, 437.

641. **Medical Diagnosis and Treatment of Speech and Hearing Pathologies.** 1-4 hrs. Prerequisite: Consent of instructor.

692. **Special Problems.** 106 hrs.

696. **Practicum in Speech and Hearing Science, Audiology, Language Disorders, or Speech Pathology.** Hrs. arr.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Student who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

701. **Seminar in Psychoacoustics.** 3 hrs.

702. **Seminar in Quantitative Methods in Speech and Hearing.** 3 hrs.

711. **Seminar in Aphasia and Related Disorders.** 3 hrs.

712. **Seminar in Articulation Disorders.** 3 hrs.

713. **Seminar in Cerebral Palsy.** 3 hrs.

- 714. **Seminar in Cleft Palate.** 3 hrs.
- 715. **Seminar in Clinical Counseling in Speech Pathology.** 3 hrs.
- 716. **Seminar in Stuttering and Related Disorders.** 3 hrs.
- 717. **Seminar in Voice Disorders.** 3 hrs.
- 718. **Seminar in Psychology of the Deaf and Speech Handicapped.** 3 hrs.
- 719. **Seminar in Problems and Procedures in Evaluating Children.** 3 hrs.
- 722. **Seminar in Differential Audiology.** 3 hrs.
- 723. **Seminar in Electrophysiological Audiometry.** 3 hrs.
- 724. **Seminar in Industrial, Military, and Community Hearing Conservation.** 3 hrs.
- 725. **Seminar in Non-Organic Hearing Loss.** 3 hrs.
- 761. **Laboratory in Speech and Hearing Sciences.** 1-3 hrs.
- 763. **Laboratory in Speech Pathology.** 1-3 hrs.
- 764. **Laboratory in Language Disorders.** 1-3 hrs.
- 791. **Research in Speech and Hearing Science.** 1-12 hrs. Prerequisite: Approval of the major professor.
- 792. **Special Problems.** 3 hrs.
- 797. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a dissertation and consulting with the major professor or making use of the library or other University facilities must enroll in this course.
- 898. **Dissertation.** 1-6 hrs. for a total of 6 hrs.

THEATRE ARTS (THE-685)

- 501. **Costume Design.** 3 hrs. Prerequisite: Permission of instructor. Costume design in theatrical production.
- 510. **Stage Sound Engineering.** 2 hrs. Principles and practice in stage sound engineering.
- 511. **Advanced Oral Interpretation.** 2 hrs. Special problems related to the oral interpretation of poetry and prose.
- 512. **Stage Lighting.** 3 hrs. Prerequisite: Permission of instructor. Theory and application of general and special lighting, color, instrumentation, and control.
- 514. **Creative Dramatics.** 3 hrs. Fundamentals of organizing and developing creative dramatics activities for preschool and elementary age school children.
- 515. **Fundamentals of Children's Theatre.** 3 hrs. Methods and techniques of producing plays for elementary age school children.
- 517. **Advanced Acting.** 3 hrs. Emphasis on presentational styles.
- 520. **Advanced Directing.** 3 hrs. Prerequisite: THE 320 or equivalent.
- 527. **Theatre History I.** 3 hrs.
- 528. **Theatre History II.** 3 hrs.
- 529. **Theatre History III.** 3 hrs.
- 530. **Summer Theatre I.** 3 hrs. Prerequisite: Permission of staff. Concentrated applied theatre.
- 531. **Summer Theatre II.** 3 hrs. Continuation of THE 530.
- 535. **Advanced Scene Design.** 3 hrs. Prerequisite: THE 306 or permission of

instructor.

540. **Ballet Technique.** 3 hrs. Advanced study and enrichment of ballet technique for the dance major. May be repeated for a total of nine (9) hours.

545. **Advanced Stage Lighting.** 3 hrs.

547. **Opera Workshop.** 1 hr. A complete stage production of scenes and major productions from the music theatre repertory for public performance.

548. **Opera Workshop.** 1 hrs. Continuation of 547.

553. **Jazz Dance for the Dance Major.** 2 hrs. The study and application of the principles of jazz movement. May be repeated twice for a total of six (6) hours.

558. **Dance Technique and Analysis.** 3 hrs. May be repeated for a total of 9 hours.

559. **Musical Theatre Production.** 3 hrs. The study of different forms and styles of musical theatre with special attention to the various elements of production.

560. **Costume Design Studio.** 3 hrs. Projects in designing costumes for plays, opera, and dance. Emphasis placed on costume designs as an element in a total production concept.

561. **Advanced Theatrical Makeup.** 3 hrs. Projects in makeup design and execution. Emphasis placed on three-dimensional makeup techniques for theatre, television, and film.

562. **Dance History I.** 3 hrs. History of dance from the primitive through the medieval periods.

563. **Dance History II.** 3 hrs. History of dance from the Renaissance to the present.

564. **Methods of Teaching Dance.** 3 hrs. A study and practice of the methodology, principles, and objectives of teaching dance.

565. **Musical Resources for Dance.** 2 hrs. Studying and gathering music resources for dance.

566. **Dance Lecture and Demonstration.** 3 hrs. Techniques of preparing dance lecture-demonstrations and tours.

567. **Dance Curriculum and Organization.** 3 hrs. Study of dance curricula and administrative problems.

568. **Musical Theatre Dance.** 2 hrs.

571. **Performance Internship.** 3 hrs. Professional experience in residence with approved professional organizations.

580. **Directing Children's Theatre.** 3 hrs. Prerequisite: THE 320, THE 420, or permission of the instructor. Techniques of directing, organizing, and administering a children's theatre program.

581. **Repertory Theatre.** 9 hrs. Participation in the analysis and preparation of the performances of three plays in repertory. Daily and nightly involvement (approximately ten hours per day) in theatre workshops (voice, movement, or technical theatre) and in rehearsals for the plays.

590. **Theatre Workshop.** 3 hrs. Designed for the non-theatre major (i.e., English, speech music, etc.) who is responsible for directing school or community drama activities.

601. **Introduction to Graduate Study in Theatre.** 2 hrs. Seminar in methods and materials for research in theatre; introduction to the bibliography of the field;

organization and form of thesis.

602. **Theory and Philosophy of Dance.** 3 hrs. Lecture and discussion of dance as a performing art related to other arts. Dance criticism and the creative nature of dance.

603. **Graduate Studies in Dance Composition.** 3 hrs. The study of challenges and processes in preparing dances for commercial theatre and concert stage.

606. **Dramatic Theory and Criticism.** 3 hrs. Examination and evaluation of dramatic theory from antiquity to the present.

611. **Seminar: Contemporary Trends in Theatre.** 3 hrs.

612. **Seminar in Theatre Production.** 3 hrs. Theory behind newer staging techniques, such as multiple media, and research in other advances in staging.

613. **Seminar in Theatre Design and Structure.** 3 hrs. Research in architectural and acoustical design, lighting, seating, color, use, and stage requirements.

614. **Seminar in Acting and Directing.** 3 hrs.

615. **Seminar in Dance, Opera, and Theatre.** 3 hrs.

616. **Seminar in Community and Regional Theatre.** 3 hrs.

620. **Playwriting.** 3 hrs. Prerequisite: Permission of instructor. Study and research in the elements of play structuring.

640. **Ballet Technique.** 3 hrs. Continuation and further enrichment of ballet technique for the dance major. May be repeated for a total of six (6) hours.

658. **Dance Technique and Analysis.** 3 hrs. Continuation of THE 558. May be repeated for a total of six (6) hours.

681. **Practicum in Acting and Directing.** 1-3 hrs. May be taken for a total of nine (9) hours.

682. **Practicum in Costume and Makeup.** 1-3 hrs. May be taken for a total of nine (9) hours.

683. **Practicum in Scene Design and Technical Theatre.** 1-3 hrs. May be taken for a total of nine (9) hours.

684. **Practicum in Lighting and Sound Engineering.** 1-3 hrs. May be taken for a total of nine (9) hours.

685. **Practicum in Reader's Theatre and Oral Interpretation.** 1-3 hrs. May be taken for a total of nine (9) hours.

686. **Practicum in Creative Dramatics and Children's Theatre.** 1-3 hrs. May be taken for a total of nine (9) hours.

687. **Practicum in Dance and Movement.** 1-3 hrs. May be taken for a total of nine (9) hours.

691. **Research in Theatre.** 1-9 hrs.

692. **Special Problems I, II, III.** 1-3 hrs. each. Investigation into specialized areas of interest within the broad area of theatre.

696. **Practicum in Theatre I, II, III.** 3 hrs. each. THE 696 may be taken three times for a total of nine hours.

697. **Independent Study and Research.** Hrs. arr. Not to be counted as credit toward a degree. Students who are not in residence but who are actively working on a thesis and consulting with the major professor or making use of the library or other University facilities must enroll in this course.

698. **Thesis.** 1-6 hrs. for a total of 6 hrs.

699. **Creative Project.** 1-8 hrs.

747. **Advanced Opera Workshop.** 1 hr. A complete stage production of scenes and major productions from the music theatre repertory for public performance.

748. **Advanced Opera Workshop.** 1 hr. Continuation of THE 747.

THERAPY (THY-740)

511. **Seminar in Corrective Therapy.** 1 hr. An introductory seminar for students interested in careers in corrective therapy.

521. **Clinical Experience.** 1-4 hrs. A supervised internship in various habilitation, rehabilitation or neuropsychiatric clinics. May be repeated.

554. **Neurological and Pathological Concepts and Implications in Human Functions.** 3 hrs. A review of the central nervous system and pathology as related to muscular control and disease that limits normal human functioning.

561. **Corrective Therapy and Rehabilitation Medicine.** 2 hrs. An introduction to the basic concepts and considerations necessary for effective functioning in the clinical setting.

562. **Spinal Cord Injuries and Muscle Disorders.** 2 hrs. A review of normal and abnormal functioning of the motor pathways with emphasis on evaluation and rehabilitation of specific motor disorders and spinal cord injuries.

563. **Normal Human Locomotion.** 2 hrs. An indepth analysis of normal human locomotion and its impact on ambulation training, prosthesis gait deviations and blind mobility training.

564. **Cardiovascular and Respiratory Disorders.** 2 hrs. A review of normal and abnormal functioning and rehabilitation programs for cardiovascular and respiratory disorders.

571. **Accelerated Corrective Therapy Rehabilitation Ward Program.** 2 hrs. An introduction to the basic concepts and treatment procedures used in accelerated rehabilitation ward programs.

572. **Dynamics of Psychiatric Group Rehabilitation Programs.** 2 hrs. The complexities in directing neuropsychiatric group activities.

573. **Neuro-Psychiatric Geriatric Training.** 2 hrs. An introduction to the multi-problem areas of communication with motivating and treating the geriatric, neuropsychiatric patient.

574. **Programs for the Severely Disturbed Psychiatric Patient.** 2 hrs. An introduction to the problems of treating the psychiatric patient in a locked ward setting.

GRADUATE FACULTY

- LUCAS, AUBREY KEITH, President of the University and Professor of Educational Administration and Supervision. B.S., M.A., University of Southern Mississippi; Ph.D., Florida State University.
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¹Leave of absence—1979-1980

²Leave of absence, Fall Semester

³Leave of absence—Spring Semester

⁴Retired—Nov. 1979

⁵Deceased—Nov. 30, 1979

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